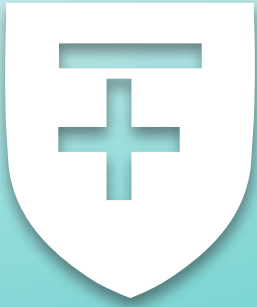




QUALITY CONTROLS CATALOGUE



Fortress
Diagnostics



Fortress Diagnostics

How To Order

What information do we need?

Please quote your:

- 1 **Name**
- 2 **Address**
- 3 **Telephone Number**
- 4 **Fax number**
- 5 **Email Address**
- 6 **Purchase Order Number**
- 7 **Product Description**
- 8 **Catalogue Number**
- 9 **Quantity Required**
- 10 **Any specific delivery instructions**

Where should you send your quote?

Please send your quote to us using one of the following options:



By Post

Fortress Diagnostics Ltd,
9A Antrim Technology Park, Belfast
Road, Co. Antrim, Northern Ireland, BT41
1QS, United Kingdom.



Over the Phone

+44 (0)28 9448 7676



By Email

info@fortressdiagnostics.com

Advancing Global Diagnostics

Fortress Diagnostics is a well-established IVD manufacturer based in the United Kingdom supplying products to over 100 countries worldwide. We have been providing our distributors and end users with high quality products for over 20 years.



Our proven product performance, matched with our selection of reputable distribution partners, has been instrumental in our continued success and growth. Built on a culture of quality and performance, we are committed to providing our customers with a reliable service and results they can trust.



Our ISO 13485:2016 certification for the design, development, manufacturing and distribution of in vitro diagnostics medical reagents and instrumentation endorses our product range and ensures that the highest quality standards are constantly maintained.



Through our global distribution network we provide highly accurate medical testing solutions to immunology, haematology and serological laboratories in hospitals, medical centres, clinics, blood banks and research institutions in over 100 international markets.



Hosting an in-house Research and Development team, we are committed to creating the next innovative IVD solutions to exceed our customer's requirements and advance the healthcare industry.

Quality Controls

Quality Control is of major importance in assuring the credibility of laboratory results and, in doing so, improving patient care.

Fortress Quality Controls (Seraqual) are supplied with instrument and method specific assigned values. We can also provide custom made quality control solutions tailor made to customer specification and requirements, enabling laboratories to be more efficient and reduce costs.

We also work with many universities, and research institutions and laboratories to develop quality control and calibration solutions for unique and novel biomarkers.

Availability

Fortress Diagnostics Seraqual Controls and Calibrators are available for:

Antioxidants
Aqueous Standards
Blood Gas & Electrolytes
Cardiac Controls
Clinical Chemistry
Coagulation/Haemostasis
Diabetes

Drugs of Abuse
Haematology
Immunoassay/ Infectious
Immunology/Proteins
Lipids
Maternal Screening
Neonatal Screening
Paediatric Controls

Speciality Controls
Thalassaemia
Therapeutic Drugs
Torch
Paediatric
Urine
Xanthochromia

Benefits



Customer Support

Fortress employ a highly skilled team of technical support staff to assist customers with all their needs and technical questions.



Cost Saving

Wide-ranging analyte content, enable laboratories to consolidate their quality control purchases and therefore benefit from cost savings.



Accurate

Manufactured by Fortress in our ISO accredited labs, Seraqual products are designed to provide highly accurate target values mimicking human samples, with minimal matrix effects being observed.



Reliable

Our fully in-house logistics team enables us to ship orders globally and our customer support team are available to assist with any labs special requirements or custom orders to ensure customer satisfaction is always exceeded.



Third Party Controls Suitable For Global Market

Fortress manufacture a wide range of third party controls which are value assigned without bias towards any methods or instrumentation enabling labs meeting their ISO accreditations through accurate and robust training.



High Quality

Products are manufactured without use of preservatives or stabilisers, utilising human-based material, which have undergone stringent quality checks for HIV, HBsAg, HCV, HTLV, Syphilis for FDA approved methods. Products of animal origin are not added in the Fortress controls, therefore eliminating the lack of specificity in antibody based tests.





Flexible

As well as an extensive range of controls available, Fortress has the ability to manufacture custom quality control products to meet any customer requirements providing a fully flexible solution.



Long Shelf Life

Fortress offers quality controls in two different formats - lyophilised (stable for up to 4 years) and liquid (stable with a shelf life of up to 18 months) - enabling labs to utilize lot supply.



Traceability

Fortress Calibrators and Controls are CE marked and fully traceable to the reference material according to ISO 17511 and ISO 18153 directives.



Consolidation

Fortress quality controls offer a wide parameter range allowing more analyte coverage with single control.



Value Assignment

















































The Fortress value assignment involves six European Reference Laboratories, (chosen on the basis of the analytes performed in these laboratories), each of which performs five independent runs.



Compatibility

Fortress controls are designed to closely mimic human samples, with minimal matrix effects being observed.



| | | | |
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1

SECTION 1
ANTIOXIDANTS

Free radical damage contributes to the cause of many chronic health issues, including cardiovascular disease, cancer, diabetes and inflammatory disease. Antioxidants are responsible for preventing free radical induced tissue damage by preventing the formation of radicals, scavenging them, or by promoting their decomposition.

The Fortress Seraqual Antioxidant Quality Controls are lyophilised for enhanced stability, offer excellent accuracy and precision and cover a range of key antioxidants in clinical practice. The Fortress Antioxidant Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Glutathione Peroxidase Control

- This control is presented in a Lyophilised format stable to expiry date at 2-8 °C.
- Reconstituted stability 3 days at 2-8 °C.
- Bovine base

| Description | Size | Cat No. | Type |
|--------------------------------|----------|----------|------|
| Glutathione Peroxidase Control | 5 x 1 ml | BXC0556A | Lyo. |

Glutathione Reductase Calibrator & Control

- Fortress Glutathione Reductase Controls are intended for monitoring accuracy and precision.
- Calibrators and Controls are supplied in a Lyophilised format stable up to expiry at 2-8 °C.
- Reconstituted stability 7 day at 2-8°C or 3 days at 25 °C.
- Bovine base

| Description | Size | Cat No. | Type |
|----------------------------------|----------|----------|------|
| Glutathione Reductase Calibrator | 5 x 1 ml | BXC0999A | Lyo. |
| Glutathione Reductase Control | 5 x 1 ml | BXC0460A | Lyo. |

Superoxide Dismutase Control

- The Control is presented in Lyophilised format stable to expiry date at 2-8 °C.
- Reconstituted stability of 7 days at 2-8 °C.
- Bovine base

| Description | Size | Cat No. | Type |
|------------------------------|----------|----------|------|
| Superoxide Dismutase Control | 5 x 1 ml | BXC0433A | Lyo. |

Total Antioxidant Status Control

- 100% Human serum based.
- Reconstituted stability of 7 days at 2-8 °C.

| Description | Size | Cat No. | Type |
|----------------------------------|----------|----------|------|
| Total Antioxidant Status Control | 5 x 1 ml | BXC0554A | Lyo. |



SECTION 2 **AQUEOUS** **STANDARDS**

Aqueous standards are water based standards and as such are not serum based standards. Aqueous standards are utilised in standardising the kit, not the patient sample.

The Fortress Aqueous Standards are available in a liquid stable format for convenience and ease-of-use, with a long shelf life, and are traceable to reference standard material.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Aqueous Standards

- Liquid stable (ready-to-use).
- Long shelf life.
- Traceable to reference standard material.

| Description | Method | Size | Cat No. | Type |
|---------------------------------------|---|---------------|----------|------|
| Albumin | 45 g/l (4.5g/dL) | 10 x 5 ml | BXCSTD01 | LS |
| Calcium | Referenced against NIST 909b (2.5mmol/l/10mg/dL) | 10 x 5 ml | BXCSTD02 | LS |
| Chloride | Referenced against NIST 909b (75mmol/l) | 10 x 5 ml | BXCSTD03 | LS |
| Chloride | Referenced against NIST 909b (100mmol/l) | 10 x 5 ml | BXCSTD04 | LS |
| Cholestrol | Referenced against NIST 909b (5.17mmol/l/200mg/dL) | 10 x 5 ml | BXCSTD05 | LS |
| Creatine | Referenced against NIST 909b (177 µmol/l/2 mg/dL) | 10 x 5 ml | BXCSTD06 | LS |
| Creatine/Glucose/Urea Standard | Referenced against NIST 965a / 909b (5.55 mmol/l/100mg/dL/ 177 µmol/l / 8.33mmol/l) | 10 x 5 ml | BXCSTD24 | LS |
| Glucose | Referenced against NIST 965a (5.55 mmol/l/100mg/dL) | 10 x 5 ml | BXCSTD07 | LS |
| Haemoglobin Standard | For Drabkin's Method (18g/dL) | 10 x 5 ml | BXCSTD08 | LS |
| Haemoglobin Standard Set | For Drabkin's Method (8, 10, 12, 15 & 18g/dL) | 5 x 1 x 10 ml | BXCSTD09 | LS |
| Iron | 35.8 µmol/l (0.2 mg/dL) | 10 x 5 ml | BXCSTD10 | LS |
| Iron | 107.4 µmol/l (0.6 mg/dL) | 10 x 5 ml | BXCSTD11 | LS |
| Lactate | 4.44mmol/l (40mg/dL) | 10 x 5 ml | BXCSTD12 | LS |
| Magnesium | Referenced against NIST 909b (1.0 mmol/l/2.43mg/dL) | 10 x 5 ml | BXCSTD13 | LS |
| Phosphorus | 1.61 mmol/l (5 mg/dL) | 10 x 5 ml | BXCSTD14 | LS |
| Potassium | Referenced against NIST 909b (0.5 mmol/l) | 10 x 5 ml | BXCSTD15 | LS |
| Potassium | Referenced against NIST 909b (5 mmol/l) | 10 x 5 ml | BXCSTD16 | LS |
| Pyruvate | 2 mmol/l | 10 x 5 ml | BXCSTD17 | LS |
| Sodium | Referenced against NIST 909b (150.0 mmol/l/150 mEq/l) | 10 x 5 ml | BXCSTD18 | LS |
| Total Protein | Referenced against NIST 927d (60g/l (6.0 g/dL) | 10 x 5 ml | BXCSTD19 | LS |
| Triglycerides | Referenced against NIST 909b (2.28 mmol/l/200mg/dL) | 10 x 5 ml | BXCSTD20 | LS |
| Urea | Referenced against NIST 909b (8.33 mmol/l/50mg/dL) | 10 x 5 ml | BXCSTD21 | LS |
| Uric Acid | Referenced against NIST 909b (595 µmol/l/10mg/dL) | 10 x 5 ml | BXCSTD22 | LS |
| Urinary Copper Standard | | 10 x 5 ml | BXCSTD25 | LS |
| Urinary/CSF Protein Standard | Referenced against NIST 927d (1g/l) | 10 x 5 ml | BXCSTD23 | LS |



SECTION 3
BLOOD GAS
& ELECTROLYTES

Oxygen and Carbon Dioxide in the blood is tightly regulated by the body as low oxygen levels (hypoxemia) can lead to several serious conditions and damages a person's vital organs, especially the heart and brain.

The Fortress Seraqual Blood Gas & Electrolytes Quality Controls contain values for ten parameters, with values assigned by European Reference Laboratories, covering pH, pCO₂, pO₂ and electrolytes. Available in a liquid stable format for convenience and ease-of-use. The Fortress Blood Gas & Electrolyte Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Blood Gas & Electrolyte Controls



- Liquid stable controls with a shelf life of 1 year when stored, unopened at 2-8 °C.
- Values are assigned by European reference laboratories.
- Store at 2-8 °C. Do not freeze or expose to temperatures greater than 30 °C.
- When opened, analyse immediately for Blood Gas parameters and use within 1 hour for electrolytes.

Analytes

| | | | |
|--------------------------------|--------------------------------|---|-----------------------|
| Calcium Chloride Glucose | Lactate Potassium Sodium | pCO ₂ pH pO ₂ | Total CO ₂ |
|--------------------------------|--------------------------------|---|-----------------------|

| Description | Size | Cat No. | Type |
|---|-------------|----------|------|
| Blood Gas & Electrolyte Control Level 1 | 1 x 2.0 ml | BXC0108A | LS |
| Blood Gas & Electrolyte Control Level 2 | 1 x 2.0 ml | BXC0108B | LS |
| Blood Gas & Electrolyte Control Level 3 | 1 x 2.0 ml | BXC0108C | LS |
| Blood Gas & Electrolyte Control Level 1 | 10 x 2.0 ml | BXC0108D | LS |
| Blood Gas & Electrolyte Control Level 2 | 10 x 2.0 ml | BXC0108E | LS |
| Blood Gas & Electrolyte Control Level 3 | 10 x 2.0 ml | BXC0108F | LS |

Electrolyte Controls

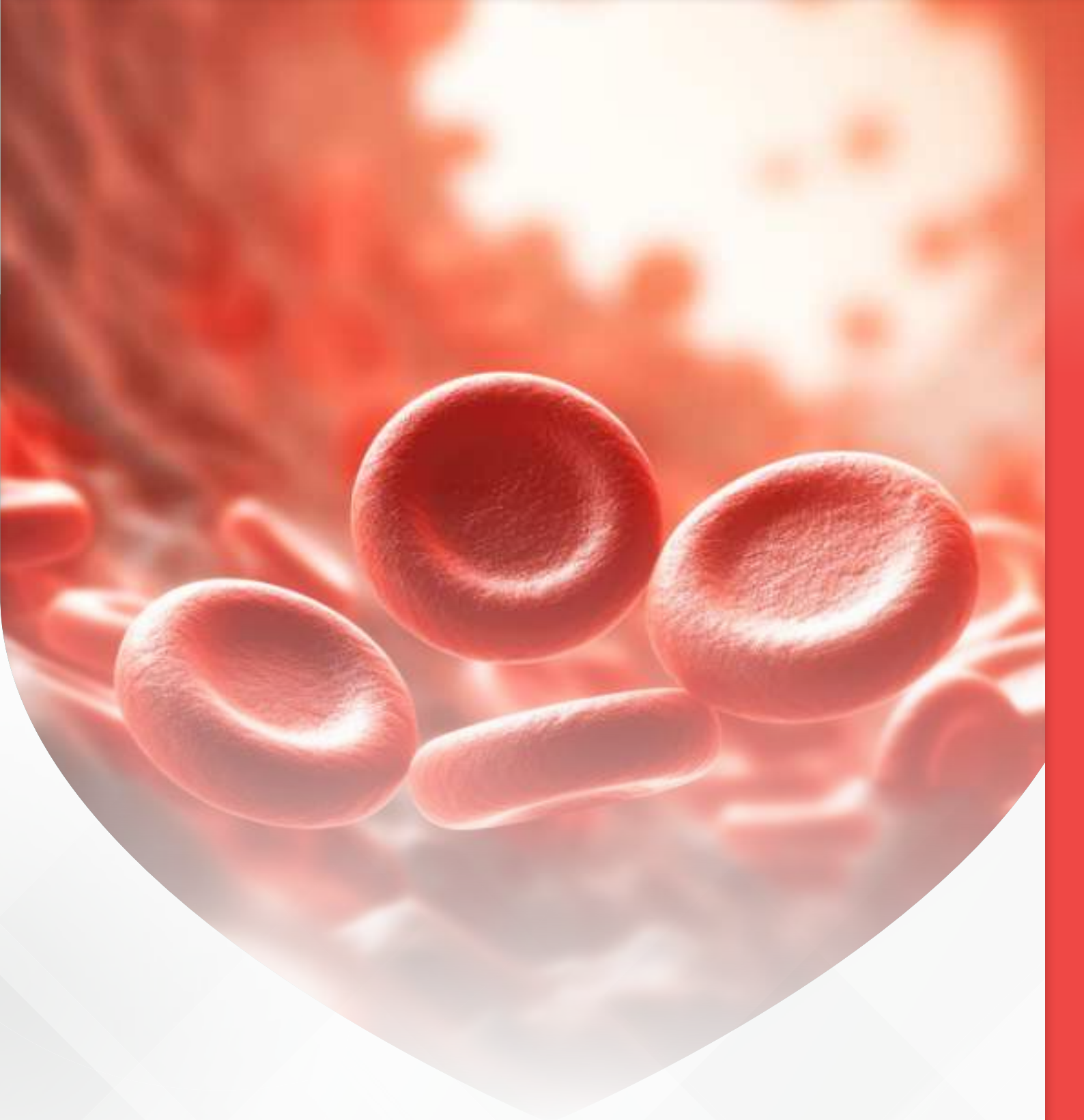


- Liquid stable format with a shelf life of 2 years when stored at 2-8 °C.
- Values are assigned by European reference Laboratories.
- Store at 2-8 °C. Do not freeze or expose to temperatures greater than 30 °C.
- When opened the analytes are stable for a period of 15 days when stored at 2-8 °C.

Analytes

| | | | |
|------------------------------|-------------------------------|----|----------------------------|
| Chloride (ISE & Colorimetry) | Potassium (ISE & Colorimetry) | pH | Sodium (ISE & Colorimetry) |
|------------------------------|-------------------------------|----|----------------------------|

| Description | Size | Cat No. | Type |
|----------------------------|----------|----------|------|
| Electrolyte Control Low | 5 x 5 ml | BXC0143A | LS |
| Electrolyte Control Normal | 5 x 5 ml | BXC0144A | LS |
| Electrolyte Control High | 5 x 5 ml | BXC0145A | LS |



4

SECTION 4
BLOOD
GROUPING

The categorisation of blood according to type is vital in ensuring the total tranfunctional compatibility between receivers and donors. There are 43 blood group systems containing 345 antigens recognised by the International Society of Blood Transfusion however the most important blood groups in transfusion are the ABO blood group system and the RH blood group system.

The Fortress Seraqual ABO-Rhesus Blood Grouping Quality Control Set is available in a liquid stable format for convenience and ease-of-use and covers all major blood types. The Fortress Blood Grouping Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Ab0-Rhesus Blood Grouping Control Set



- Ready-to-Use
- Covers all major blood types.
- Total Blood Kit.

Analytes

| | | | |
|---------|--------|--------------|----------------|
| A AB | B O | Rhesus Rh | Kell Phenotype |
|---------|--------|--------------|----------------|

| Description | Size | Cat No. | Type |
|---------------------------------------|---------|----------|--------------|
| AB0-Rhesus Blood Grouping Control Set | 4 x 6ml | BXC0070A | Ready-to-Use |



5

**SECTION 5
CARDIAC
CONTROLS**

Cardiology is one of the largest specialities in medicine, which focuses on the heart and cardiovascular system. The fast and accurate diagnosis of a cardiac event can be life-saving.

The Fortress Seraqual Cardiac Quality Controls have been designed to cover several cardiac analytes. Available in a lyophilised format for enhanced stability and manufactured from 100% human based serum to negate matrix effect.

The Fortress Cardiac Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Cardiac Controls



- Values are assigned by European reference laboratories.
- Lyophilised format stable up to expiry at 2-8 °C.
- Reconstituted stability of 5 days at 2-8 °C or 4 weeks at -20 °C.
- 100% Human serum base.

Analytes

| Homocysteine CK Total | CK MB Activity CK MB Mass | Digoxin Troponin I | Troponin T Myoglobin |
|--------------------------|------------------------------|-----------------------|-------------------------|
|--------------------------|------------------------------|-----------------------|-------------------------|

| Description | Size | Cat No. | Type |
|---------------------------|--------------|----------|------|
| Cardiac Control Set | 3 x 1 x 1 ml | BXC0450B | Lyo. |
| Cardiac Control Set | 3 x 1 x 2 ml | BXC0450A | Lyo. |
| Cardiac Control (Level 1) | 5 x 1 ml | BXC0455B | Lyo. |
| Cardiac Control (Level 1) | 5 x 2 ml | BXC0455A | Lyo. |
| Cardiac Control (Level 2) | 5 x 1 ml | BXC0456B | Lyo. |
| Cardiac Control (Level 2) | 5 x 2 ml | BXC0456A | Lyo. |
| Cardiac Control (Level 3) | 5 x 1 ml | BXC0464B | Lyo. |
| Cardiac Control (Level 3) | 5 x 2 ml | BXC0464A | Lyo. |

CK/CK MB Calibrators & Controls



- Lyophilised format stable up to expiry at 2-8 °C.
- Values are assigned by European Reference Laboratories.
- 100% Human serum base.
- Reconstituted stability 5 days at 2-8 °C, 8 hours at +25 °C and 4 weeks at -20 °C.

Analytes

| CK Total | CK MB Activity |
|----------|----------------|
|----------|----------------|

| Description | Size | Cat No. | Type |
|---------------------|-----------|----------|------|
| CK/CK MB Calibrator | 1 x 2 ml | BXC0454A | Lyo. |
| CK/CK MB Calibrator | 5 x 2 ml | BXC0454B | Lyo. |
| CK/CK MB Control | 1 x 2 ml | BXC0453A | Lyo. |
| CK/CK MB Control | 5 x 2 ml | BXC0453B | Lyo. |
| CK/CK MB Control | 10 x 2 ml | BXC0453C | Lyo. |



D-DIMER Calibrators & Controls

- Lyophilised format stable up to expiry at 2-8°C.
- Prepared from human serum.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--------------------------------|----------|----------|------|
| D-DIMER Calibrator Set (L1-L5) | 5 x 1 ml | BXC0788A | Lyo. |
| D-DIMER Control Set (L1,L2) | 2 x 1 ml | BXC0789A | Lyo. |

Homocysteine Calibrators & Controls



- Fortress Homocysteine controls are intended for monitoring accuracy and precision.
- The Calibrators & controls are provided in a Lyophilised format stable up to expiry at 2-8 °C.
- 100% Human serum based.

| Description | Size | Cat No. | Type |
|--|--------------|----------|------|
| Homocysteine Calibrator Set (5 Levels) | 5 x 1 x 1 ml | BXC0691A | Lyo. |
| Homocysteine Control Set (2 Levels) | 2 x 1 x 1 ml | BXC0692A | Lyo. |

Myoglobin Calibrators & Controls

- Lyophilised to achieve long shelf life.
- Reconstituted stability of 30 days at 2-8°C and 12 months at -20°C.

| Description | Size | Cat No. | Type |
|-----------------------------|----------------|----------|------|
| Myoglobin Calibrator Series | 1 x 1 x 0.5 ml | BXC0486A | Lyo. |
| Myoglobin Control | 1 x 0.5 ml | BXC0487A | Lyo. |

NTProBNP Calibrators & Controls



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Prepared from human serum.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|-------------------------|--------------|----------|------|
| NTProBNP Calibrator | 1 x 1 ml | BXC0335A | LS |
| NTProBNP Control Series | 6 x 1 x 1 ml | BXC0336A | LS |

Troponin-T (High Sensitivity) Controls



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Cut-off value of 13.5ng/L for automated systems.
- Suitable for use in point-of-care testing.
- Open vial stability of 6 months, at 2-8°C.

| Description | Size | Cat No. | Type |
|-------------------------------------|----------|----------|------|
| Troponin-T High Sensitivity Control | 3 x 1 ml | BXC0457A | LS |

Troponin-I Controls & Calibrators

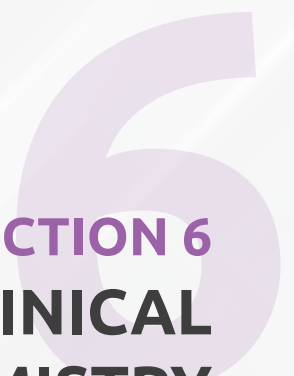


- Lyophilised for long shelf life, stable to expiry at 2-8 °C.
- Reconstituted stability of 5 days at 2-8°C.

| Description | Size | Cat No. | Type |
|---------------------------|--------------|----------|------|
| Troponin-I Control Set | 2 x 1 x 1 ml | BXC0470A | Lyo. |
| Troponin-I Calibrator Set | 6 x 1 x 1 ml | BXC0473A | Lyo. |



SECTION 6
CLINICAL
CHEMISTRY



The Fortress clinical chemistry range of controls are suitable for a range of clinical chemistry analysers. Available in both liquid stable and lyophilised formats, offering flexibility for your laboratory.

The Fortress Clinical Chemistry Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

ADA Calibrators & Controls



- Liquid Stable version (Ready-to-use) stable to expiry at 2-8 °C & Open vial stability of 30 days, at 2-8°C.
- Lyophilised version reconstituted stability of 30 days at 2-8°C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|------------------------------|----------|----------|------|
| ADA Calibrator | 1 x 5 ml | BXC0209A | LS |
| ADA Control (Level 1) | 1 x 5 ml | BXC0210A | LS |
| ADA Control (Level 2) | 1 x 5 ml | BXC0216A | LS |
| ADA Calibrator | 1 x 5 ml | BXC0217A | Lyo. |
| ADA Control (Level 1) | 1 x 5 ml | BXC0218A | Lyo. |
| ADA Control (Level 2) | 1 x 5 ml | BXC0219A | Lyo. |

Alcohol, Ammonia, Carbonate Calibrators & Controls



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Reconstituted stability of 5 days at 2-8°C.

| Description | Size | Cat No. | Type |
|--|----------|----------|------|
| Alcohol, Ammonia, Carbonate Calibrator | 1 x 2 ml | BXC0492A | LS |
| Alcohol, Ammonia, Carbonate Control (Level 1) | 1 x 2 ml | BXC0493A | LS |
| Alcohol, Ammonia, Carbonate Control (Level 2) | 1 x 2 ml | BXC0494A | LS |

Aldolase Calibrators & Controls



- Lyophilised product with a 3 year shelf life when stored at 2-8 °C.
- Reconstituted stability of 5 days at 2-8°C.
- Values assigned by reference laboratories in Europe

| Description | Size | Cat No. | Type |
|----------------------------------|----------|----------|------|
| Aldolase Calibrator | 3 x 1 ml | BXC0394A | Lyo. |
| Aldolase Control Elevated | 3 x 1 ml | BXC0393A | Lyo. |
| Aldolase Control Normal | 3 x 1 ml | BXC0392A | Lyo. |

Alpha-1-Acid Glycoprotein Calibrators & Controls



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|---|----------|----------|------|
| Alpha-1-Acid Glycoprotein Calibrator | 2 x 1 ml | BXC0892A | LS |
| Alpha-1-Acid Glycoprotein Control | 2 x 1 ml | BXC0891A | LS |

Alpha-1-Antitrypsin Calibrators & Controls

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--|-------------|----------|------|
| Alpha-1-Antitrypsin Calibrator | 1 x 2 ml | BXC0711A | LS |
| Alpha-1-Antitrypsin Control (L1 & L2) | 2 x 1 x 2ml | BXC0712A | LS |

Aluminium Calibrators & Controls

- Liquid Stable (Ready-to-Use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|----------------------------------|----------|----------|------|
| Aluminium Control Level 1 | 1 x 1 ml | BXC0696A | LS |
| Aluminium Control Level 2 | 1 x 1 ml | BXC0697A | LS |
| Aluminium Control Level 3 | 1 x 1 ml | BXC0698A | LS |

Ammonia Controls & Calibrators

- Liquid stable Calibrator and Control with a 2 year shelf life.
- Values are assigned in house using Enzymatic UV method.
- Storage at 2-8 °C.
- One month open vial stability at 2-8 °C.

| Description | Size | Cat No. | Type |
|-----------------------------|----------|----------|------|
| Ammonia Calibrator | 3 x 2 ml | BXC0373A | LS |
| Ammonia Control High | 3 x 2 ml | BXC0375A | LS |
| Ammonia Control Low | 3 x 2 ml | BXC0374A | LS |

Angiotensin Converting Enzyme (ACE) Controls & Calibrators

- Lyophilised for long shelf life, stable to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8°C.

| Description | Size | Cat No. | Type |
|---|----------|----------|------|
| Angiotensin Converting Enzyme (ACE) Calibrator | 3 x 1 ml | BXC0177A | Lyo. |
| Angiotensin Converting Enzyme (ACE) Control (L1) | 3 x 1 ml | BXC0178A | Lyo. |
| Angiotensin Converting Enzyme (ACE) Control (L2) | 3 x 1 ml | BXC0179A | Lyo. |

Bile Acid Calibrator

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|-----------------------------|----------|----------|------|
| Bile Acid Calibrator | 1 x 1 ml | BXC0582A | LS |

Blood Alcohol Controls & Calibrators

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- When vial opened it must be used immediately, store at 2-8°C.

| Description | Size | Cat No. | Type |
|--|----------|----------|------|
| Blood Alcohol Calibrator | 1 x 2 ml | BXC0488A | LS |
| Blood Alcohol Control (Level 1) | 1 x 2 ml | BXC0489A | LS |
| Blood Alcohol Control (Level 2) | 1 x 2 ml | BXC0490A | LS |



Bilirubin Controls & Calibrators

- Human Serum based Controls simulating the human serum matrix.
- Values assigned by reference laboratories in Europe.
- Typical levels: Total Bilirubin around 350 umol/l (around 20 mg/dl) & Direct Bilirubin around 100 umol/l (around 6.0 mg/dl).
- Lyophilised product and Liquid Stable version ready-to-use stable up to expiry at 2-8 °C.
- Storage at 2-8 °C.
- Reconstituted stability of 5 days at 2-8 °C.
- Values for Total and Direct Bilirubin.
- Ideal for laboratories measuring Neonatal Bilirubin.
- Open vial stability for liquid 3 months.

| Description | Size | Cat No. | Type |
|---|-------------|----------|------|
| Bilirubin Calibrator | 3 x 1ml | BXC0319A | Lyo. |
| Bilirubin Control | 1 x 1ml | BXC0318A | Lyo. |
| Bilirubin Control | 3 x 1ml | BXC0318B | Lyo. |
| Bilirubin Calibrator, Liquid Stable | 2 x 1ml | BXC0303A | LS |
| Bilirubin Control Set, Liquid Stable | 2 x 1 x 1ml | BXC0304A | LS |
| Bilirubin Control Set, Paediatric, Liquid Stable | 2 x 1 x 1ml | BXC0305A | LS |
| Bilirubin Control, Liquid Stable | 1 x 1ml | BXC0306A | LS |
| Bilirubin Control, Liquid Stable | 3 x 1ml | BXC0306B | LS |
| Bilirubin Control, Liquid Stable | 1 x 1 ml | BXC0307A | LS |
| Bilirubin Control, Liquid Stable | 3 x 1 ml | BXC0307B | LS |

Calibration Serum



- Approximately 40 parameters are value assigned by reference laboratories in Europe.
- Method based values with reference traceability provided.
- Lyophilised product stable to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8 °C, or 4 weeks at -20 °C.

Analytes

| | | | |
|---|---|---|---|
| Enzymes ALP ALT(GPT) Total Amylase AST(GOT) CK NAC Gamma GT HBDH LDH Lipase Prostatic Acid - Phosphatase | Total Acid Phosphatase Substrates Albumin Bile Acids Bilirubin Direct Bilirubin Total Calcium Cholesterol Copper Creatinine | D3- Hydroxybutyrate Glucose HDL Cholesterol Iron Iron/TIBC Inorganic Phosphorous Lactate LDL Cholesterol Total Protein Triglycerides Urea | Uric Acid Zinc Electrolytes Chloride Lithium Magnesium Potassium Sodium |
|---|---|---|---|

| Description | Size | Cat No. | Type |
|--------------------------|-----------|----------|------|
| Calibration Serum | 5 x 3 ml | BXC0321L | Lyo. |
| Calibration Serum | 10 x 3 ml | BXC0321M | Lyo. |

CO₂ (Bicarbonate) Controls & Calibrators



- Values are assigned by in house methods using Enzymatic CO₂ kits.
- The CO₂ (Bicarbonate) calibrator is intended for calibrating the Fortress CO₂ (Bicarbonate) kit.
- CO₂ (Bicarbonate) Calibrator & Controls are Liquid Stable.
- Stable to expiry at 2-8 °C.
- Two months open vial stability at 2-8 °C.

| Description | Size | Cat No. | Type |
|--|----------|----------|------|
| CO₂ (Bicarbonate) Calibrator | 3 x 2 ml | BXC0155A | LS |
| CO₂ (Bicarbonate) Control Low | 3 x 2 ml | BXC0156A | LS |
| CO₂ (Bicarbonate) Control High | 3 x 2 ml | BXC0157A | LS |



CSF Controls

- Human CSF based controls.
- Method based values with reference traceability provided.
- Liquid stable (Ready-to-Use) - Stable to expiry at 2-8 °C.
- Once opened, the control is stable for a period of 30 days when stored at 2-8 °C without contamination.

Analytes

| Proteins | Electrolytes | Substrates |
|------------------------------------|-------------------------------|--------------------|
| IgA IgG IgM Total Protein | Chloride Lactate Sodium | Albumin Glucose |

| Description | Size | Cat No. | Type |
|-----------------------|----------|----------|------|
| CSF Control (Level 1) | 1 x 1 ml | BXC0673A | LS |
| CSF Control (Level 2) | 1 x 1 ml | BXC0673B | LS |

CSF DIFF Controls

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 14 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|----------------------------|----------|----------|------|
| CSF Diff Control (Level 1) | 5 x 2 ml | BXC0080A | LS |
| CSF Diff Control (Level 2) | 5 x 2 ml | BXC0081A | LS |
| CSF Diff Control (Level 3) | 5 x 2 ml | BXC0082A | LS |

CRP Controls & Calibrators



- Fortress CRP controls are intended for monitoring accuracy and precision of CRP turbidimetric, Immunoturbidimetric and Nephelometric assays.
- This control is presented in a liquid stable format and is stable up to expiry when stored at 2-8 °C.
- The values are assigned in European Reference Laboratories.
- 100% Human serum designed for matrix conformity.
- Once opened the control is stable for a period of 30 days when stored without contamination at 2-8 °C.

| Description | Size | Cat No. | Type |
|------------------------------------|----------------|----------|------|
| CRP (Single Point) Calibrator | 3 x 1 ml | BXC0324A | LS |
| CRP (Multi Point) Calibrator | 6 x 1 x 1 ml | BXC0324B | LS |
| CRP (ULTRA SENSITIVE) Low Control | 3 x 1 ml | BXC0325A | LS |
| CRP (ULTRA SENSITIVE) Standard Set | 5 x 1 x 0.5 ml | BXC0327A | LS |
| CRP Control (Level 1) | 5 x 1 ml | BXC0326A | LS |
| CRP Control (Level 2) | 5 x 1 ml | BXC0326B | LS |

Cyanmethaemoglobin Standard Set



- Typical concentrations 8,10,12,15,18 g/dL.
- The standard set comprises of 5 standards.
- Values are assigned using in house methods.
- Store the standard set at 2-8 °C. The Standard set is stable up to expiry when stored unopened at 2-8 °C.
- Once opened the standard set is stable for a period of 1 month when stored at 2-8°C without contamination.
- Do not freeze

| Description | Size | Cat No. | Type |
|---------------------------------|---------------|----------|------|
| Cyanmethaemoglobin Standard Set | 5 x 1 x 10 ml | BXC0483A | LS |



Cystatin C Controls & Calibrators

- Values are assigned using in house methods.
- These Controls and calibrators are supplied in liquid stable format with a shelf life of 2 years when stored at 2-8 °C.
- When opened and stored at 2-8 °C, without contamination, the controls and calibrators are stable for a period of 1 month.
- Mix gently before use.
- The Calibrator set and controls are liquid stable.
- Human serum based to ensure matrix compatibility.
- Do not freeze.

| Description | Size | Cat No. | Type |
|--------------------------------------|----------|----------|------|
| Cystatin C Calibrator Set (6 Levels) | 6 x 1 ml | BXC0334A | LS |
| Cystatin C Control (Level 1) | 2 x 1 ml | BXC0333A | LS |
| Cystatin C Control (Level 2) | 2 x 1 ml | BXC0333B | LS |

D3-Hydroxybutyrate Controls & Calibrators



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--------------------------------------|----------|----------|------|
| D3-Hydroxybutyrate Calibrator | 1 x 1 ml | BXC0544A | LS |
| D3-Hydroxybutyrate Control (Level 1) | 1 x 1 ml | BXC0543A | LS |
| D3-Hydroxybutyrate Control (Level 2) | 1 x 1 ml | BXC0543B | LS |

D-Dimer Calibrators & Controls



- Liquid Stable (Ready-to-use)
- Prepared from human serum.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--------------------------------|----------|----------|------|
| D-DIMER Calibrator Set (L1-L5) | 5 x 1 ml | BXC0788A | LS |
| D-DIMER Control Set (L1, L2) | 5 x 1 ml | BXC0789A | LS |

Ferritin Controls & Calibrators



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|----------------------------|--------------|----------|------|
| Ferritin Calibrator | 1 x 1 ml | BXC0445A | LS |
| Ferritin Calibrator Set | 6 x 1 x 1 ml | BXC0445B | LS |
| Ferritin Control (Level 1) | 3 x 1 ml | BXC0443A | LS |
| Ferritin Control (Level 2) | 3 x 1 ml | BXC0444A | LS |

G-6-PDH Controls



- Values assigned by reference Laboratories in Europe.
- Stable to expiry at 2-8 °C.
- Reconstituted stability of 5 days at 2-8 °C.
- Lyophilised for enhanced stability.
- Typical Levels:
 - G-6-PDH Deficient Control : 100 - 200 U/l
 - G-6-PDH Normal Control : 900 - 1400 U/l

| Description | Size | Cat No. | Type |
|--------------------------------|----------|----------|------|
| G-6-PDH Control (Normal) | 1 x 1 ml | BXC0573B | Lyo. |
| G-6-PDH Control (Intermediate) | 1 x 1 ml | BXC0572B | Lyo. |
| G-6-PDH Control (Deficient) | 1 x 1 ml | BXC0572B | Lyo. |



HDL/LDL Calibrators

- Fortress HDL/LDL Cholesterol Calibrator is presented in a Lyophilised format for enhanced stability. stable up to expiry at 2-8 °C.
- Once opened and reconstituted the control is stable for 7 days at 2-8 °C, or 30 days at -20 °C.
- 100% human material designed for matrix conformity.

Analytes

| HDL Cholesterol (Direct) | | LDL Cholesterol (Direct) | |
|--------------------------|----------|--------------------------|------|
| Description | Size | Cat No. | Type |
| HDL/LDL Calibrator | 1 x 3 ml | BXC0315B | Lyo. |
| HDL/LDL Calibrator | 5 x 3 ml | BXC0315C | Lyo. |
| HDL/LDL Calibrator | 5 x 1 ml | BXC0315D | Lyo. |
| HDL/LDL Calibrator | 1 x 1 ml | BXC0315E | Lyo. |
| HDL/LDL Calibrator | 3 x 1 ml | BXC0315F | Lyo. |

Human Assayed Controls



- Approximately 52 parameters are value assigned by reference laboratories in Europe.
- Method based values with reference traceability provided.
- Lyophilised product stable to expiry at 2-8 °C.
- Human serum based – same matrix as samples.
- Reconstituted stability of 7 days at 2-8 °C, or 4 weeks at -20 °C.

Analytes

| Enzymes | Substrates | | Immunoassays |
|----------------------------|-----------------------|---------------------|------------------|
| Alkaline Phosphatase | Albumin | Total Protein | Total T3 |
| ALT (GPT) | Bile Acids | Triglycerides | Total T4 |
| AST (GOT) | Bilirubin Direct | UIBC | Cortisol Vit Biz |
| Cholinesterase | Bilirubin Total | Urea | Folate |
| CK NA | Calcium | Uric Acid | Drugs |
| Gamma GT | Cholesterol | Zinc | Digoxin |
| HBDH | Copper | | Gentamicin |
| LDH | Creatinine | Electrolytes | Paracetamol |
| Lipase | D3- Hydroxybutyrate | Bicarbonate | Salicylate |
| Pancreatic Amylase | Glucose | Chloride | Theophiline |
| Total Acid | HDL Cholesterol | Lithium | Tobramycin |
| Phosphatase | Iron | Magnesium | |
| Prostatic Acid-Phosphatase | Iron/TIBC | Potassium | |
| Total Amylase | Inorganic Phosphorous | Sodium | |
| | LDL Cholesterol | | |

| Description | Size | Cat No. | Type |
|---------------------------------|----------|----------|------|
| Human Assayed Control (Level 1) | 10 x 5ml | BXC0312A | Lyo. |
| Human Assayed Control (Level 2) | 10 x 5ml | BXC0312B | Lyo. |
| Human Assayed Control (Level 1) | 5 x 5ml | BXC0312C | Lyo. |
| Human Assayed Control (Level 2) | 5 x 5ml | BXC0312D | Lyo. |



Human Precision Controls

- A vast range of clinical chemistry parameters are provided with guidance values.
- Method based values with reference traceability provided.
- Stable to expiry at 2-8 °C.
- Human serum based – same matrix as samples.
- Reconstituted stability of 7 days at 2-8 °C, or 4 weeks at -20 °C.
- Methods and reference traceability.

Analytes

| Enzymes | Substrates | | Immunoassays |
|----------------------------|-----------------------|---------------------|------------------|
| Alkaline Phosphatase | Albumin | Total Protein | Total T3 |
| ALT (GPT) | Bile Acids | Triglycerides | Total T4 |
| AST (GOT) | Bilirubin Direct | UIBC | Cortisol Vit Biz |
| Cholinesterase | Bilirubin Total | Urea | Folate |
| CK NA | Calcium | Uric Acid | Drugs |
| Gamma GT | Cholesterol | Zinc | Digoxin |
| HBDH | Copper | | Gentamicin |
| LDH | Creatinine | Electrolytes | Paracetamol |
| Lipase | D3- Hydroxybutyrate | Bicarbonate | Salicylate |
| Pancreatic Amylase | Glucose | Chloride | Theophiline |
| Total Acid | HDL Cholesterol | Lithium | Tobramycin |
| | Iron | Magnesium | |
| Phosphatase | Iron/TIBC | Potassium | |
| Prostatic Acid-Phosphatase | Inorganic Phosphorous | Sodium | |
| Total Amylase | LDL Cholesterol | | |

| Description | Size | Cat No. | Type |
|-----------------------------------|----------|----------|------|
| Human Precision Control (Level 1) | 10 x 5ml | BXC0314A | Lyo. |
| Human Precision Control (Level 2) | 10 x 5ml | BXC0314B | Lyo. |
| Human Precision Control (Level 1) | 5 x 5ml | BXC0314C | Lyo. |
| Human Precision Control (Level 2) | 5 x 5ml | BXC0314D | Lyo. |

IgE Calibrators & Controls



- Lyophilised product stable to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8°C.
- Reconstituted stability of 30 days at -20°C.

| Description | Size | Cat No. | Type |
|-------------------------------------|--------------|----------|------|
| IgE Calibrator | 1 x 1 ml | BXC0752A | Lyo. |
| IgE Control Set (Level 1 & Level 2) | 2 x 2 x 3 ml | BXC0753A | Lyo. |

Immunoglobulin Calibrator



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 60 days, at 2-8°C.
- Prepared from Human Serum.

Analytes

| IgA | IgC | IgM |
|-----|-----|-----|
| | | |

| Description | Size | Cat No. | Type |
|---------------------------|----------|----------|------|
| Immunoglobulin Calibrator | 3 x 1 ml | BXC0040A | LS |



Lipase Calibrator

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|-------------------|----------|----------|------|
| Lipase Calibrator | 3 x 1 ml | BXC0510A | LS |

Lipoprotein (a) Calibrators & Controls



- The controls are supplied in two levels.
- 100% Human serum designed for matrix conformity.
- Liquid stable controls and calibrators stable up to expiry at 2-8 °C.
- Once opened the Calibrator and Controls are stable for a period of 30 days when stored at 2-8 °C.
- Lipoprotein Low and High controls typically have the following the levels:
 - Lipoprotein Control Low around 20mg/dl.
 - Lipoprotein Control High around 50mg/dl.
- Do not freeze.

| Description | Size | Cat No. | Type |
|------------------------------|----------|----------|------|
| Lipoprotein (a) Calibrator | 1 x 1 ml | BXC0134A | LS |
| Lipoprotein (a) Control Low | 1 x 1 ml | BXC0131A | LS |
| Lipoprotein (a) Control High | 1 x 1 ml | BXC0133A | LS |

Lithium Calibrator



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|----------------------------------|----------|----------|------|
| Lithium Calibrator (3000 mmol/L) | 2 x 1 ml | BXC0106A | LS |

Microalbumin Calibrators & Controls



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--------------------------------|----------|----------|------|
| Microalbumin Calibrator Series | 5 x 1 ml | BXC0329A | LS |
| Microalbumin Control (Level 1) | 2 x 1 ml | BXC0328A | LS |
| Microalbumin Control (Level 2) | 5 x 1 ml | BXC0328B | LS |

Myoglobin Calibrators & Controls



- Lyophilised product stable to expiry at 2-8 °C.
- Reconstituted stability of 30 days at 2-8°C.

| Description | Size | Cat No. | Type |
|-----------------------------|---------------|----------|------|
| Myoglobin Calibrator Series | 1 x 1 x 0.5ml | BXC0486A | Lyo. |
| Myoglobin Control | 1 x 0.5ml | BXC0487A | Lyo. |

NTProBNP Calibrators & Controls



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Prepared from human serum.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|-------------------------|-------------|----------|------|
| NTProBNP Calibrator | 1 x 1ml | BXC0335A | Lyo. |
| NTProBNP Control Series | 6 x 1 x 1ml | BXC0336A | Lyo. |

Oxalate Calibrators & Controls

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--|---------|----------|------|
| Oxalate (Urinary) Calibrator [0.5 mmol/L] | 1 x 5ml | BXC0147A | LS |
| Oxalate (Urinary) Control (Level 1) [0.2 mmol/L] | 1 x 5ml | BXC0148A | LS |
| Oxalate (Urinary) Control (Level 2) [0.7 mmol/L] | 1 x 5ml | BXC0149A | LS |

RF (Multi-Point) Calibrator

- This Calibrator is presented in a liquid stable format and is stable up to expiry when stored at 2-8 °C.
- The Calibrator is presented as a single level calibrator which can be diluted as necessary for calibrating RF Turbidimetric Assays.
- Values are assigned by in house methods and instruments.
- 100% human material designed for matrix conformity.
- Once opened the control is stable for a period of 30 days when stored without contamination at 2-8 °C.

| Description | Size | Cat No. | Type |
|-----------------------------|----------|----------|------|
| RF (Multi-Point) Calibrator | 3 x 2 ml | BXC0325B | - |
| RF (Multi-Point) Calibrator | 1 x 2 ml | BXC0612A | - |

TIBC Calibrator

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|----------------------------|--------------|----------|------|
| TIBC Calibrator (2 Levels) | 2 x 1 x 1 ml | BXC0238A | LS |

Zinc & Copper Calibrator

- Lyophilised product stable to expiry at 2-8 °C.
- Reconstituted stability of 30 days at 2-8°C.

| Description | Size | Cat No. | Type |
|--------------------------|----------|----------|------|
| Zinc & Copper Calibrator | 2 x 1 ml | BXC0463A | Lyo. |



SECTION 7 COAGULATION/ HAEMOSTASIS

Haemostasis refers to the process that leads to normal blood clotting in response to an injury. The Fortress Haemostasis Plasma Controls are provided in a lyophilised format for enhanced stability and are 100% human serum based to negate matrix effects.

The Fortress Haemostasis Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Plasma Calibrator & Controls



For Coagulation Series only, PT, aPTT, Fibrinogen, Thrombin Time

- The calibrator and controls are supplied in Lyophilised format and stable to expiry when stored at 2-8 °C.
- Once opened and reconstituted, the calibrators and controls are stable for a period of 24 hours at 2-8 °C.
- 100% Human plasma to mimic human samples.
- Do not Freeze

| Description | Size | Cat No. | Type |
|--|--------------|----------|------|
| Plasma Calibrator | 5 x 1 ml | COAG125A | Lyo. |
| Plasma Control (Level 1) | 1 x 1 ml | COAG108A | Lyo. |
| Plasma Control (Level 1) | 5 x 1 ml | COAG108B | Lyo. |
| Plasma Control (Level 2) | 1 x 1 ml | COAG109A | Lyo. |
| Plasma Control (Level 2) | 5 x 1 ml | COAG109B | Lyo. |
| Plasma Control Set (Level 1 & Level 2) | 2 x 5 x 1 ml | COAG112A | Lyo. |



SECTION 8 CUSTOMISED QUALITY CONTROLS

Fortress Diagnostics has extensive experience and expertise in the production of customised quality controls for EQA programmes, and manufacturing custom made QC solutions for laboratories throughout the global market.

Over 200 analytes can be customized in the required matrix, with concentrations, levels and volumes.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Customised Quality Controls

The following list of quality controls can be customised by Fortress Diagnostics:

Antioxidant Controls
Clinical Chemistry
Cardiac Controls
Haemostasis Controls
Diabetes Controls
Immunoassay Controls

Immunology / Specific Protein Controls
Lipids
Tumor Markers
TDM and DOA
Urine Assayed
Urine Strip Controls



Cost Effective

Fortress Diagnostics throughout the global market. Over 200 analytes can be customized in the required matrix, with concentrations, levels and volumes.



Customised

The customised advantage helps in getting the laboratory's requirement in analytes and levels in one control. High usage controls can be manufactured in higher volumes.



Quality

All controls are CE marked and manufactured according to the ISO13485 specifications.



Choice of Matrix

Controls are available in different matrices, like Serum, Plasma, Whole Blood, Urine and aqueous material.



Fast Lead Time

The total order, testing and manufacturing time is 60 days. This cuts the ordering of customised control to half the time that is required by other companies to manufacture customised controls.

Our Process

Time Frame of 90 Days



Diabetes is a chronic disease characterised by insulin resistance either due to the pancreas's inability to produce enough insulin or due to the body's inability to use the insulin it produces effectively. The Fortress Diabetes Controls are lyophilised for enhanced stability, and are ideal for both clinical and research use. The Fortress Diabetes Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Fructosamine Controls & Calibrators



- Values are assigned using both in house and reference laboratory values.
- 100% Human Serum designed for matrix conformity.
- Lyophilised Controls and Calibrators stable to expiry at 2-8 °C.
- Reconstituted stability of 28 days at -20 °C.

| Description | Size | Cat No. | Type |
|---------------------------------------|----------|----------|------|
| Fructosamine Calibrator | 1 x 1 ml | BXC0592A | LS |
| Fructosamine Control (Level 1) | 3 x 1 ml | BXC0593A | LS |
| Fructosamine Control (Level 2) | 3 x 1 ml | BXC0594A | LS |

HbA1c Calibrators



- 100% human blood designed for matrix conformity.
- The Calibrator is supplied in a Lyophilised format with a 2 year shelf life when stored at 2-8 °C.
- Reconstituted stability of 5 days at 2-8 °C.
- HbA1c Calibrator Set: Typical levels:
HbA1c Calibrator Level 1: 5-6%
HbA1c Calibrator Level 2: 11-13%
- Do not freeze.

| Description | Size | Cat No. | Type |
|--|-----------------|----------|------|
| HbA1c Calibrator Series (2 Levels) For use with BXC0670 | 2 x 1 x 0.5 ml | BXC0668A | Lyo. |
| HbA1c Calibrator Set (2 Levels) | 2 x 1 x 0.5 ml | BXC0678A | Lyo. |
| HbA1c (HPLC) Calibrator Set (2 Levels) | 2 x 1 x 0.25 ml | BXC0780A | Lyo. |

HbA1c Controls



- Controls are supplied in a Lyophilised format stable to expiry at 2-8 °C.
- The controls are value assigned in European Reference Laboratories.
- The Control carries values for methods such as Immunoturbidimetry, Micro-column, HPLC and Enzymatic HbA1c & point of care devices.
- Values are provided for both NGSP DCCT and IFCC methodologies.

| Description | Size | Cat No. | Type |
|---|--|----------|------|
| HbA1c (HPLC) Control Set (2 Levels) | 2 x 1 x 0.5 ml | BXC0779A | Lyo. |
| HbA1c Control High | 2 x 0.5 ml | BXC0677A | Lyo. |
| HbA1c Control Low | 2 x 0.5 ml | BXC0676A | Lyo. |
| HbA1c Control Set (2 Levels) Inc. HPLC | 2 x 2 x 0.5 ml | BXC0675A | Lyo. |
| HbA1c Control Set (2 Levels) | <i>For use with BXC0670</i> 2 x 1 x 0.5 ml | BXC0669A | Lyo. |

Thalassaemia (α & β) Control



For use on all major systems and methods including HPLC, Immunoassay, HbA2, HbF, HbS.

- Designed for monitoring accuracy and precision of Haemoglobin Variants measurements associated with Thalassaemia.
- The controls are supplied in a Lyophilised format stable up to expiry at 2-8 °C.
- 100% Human blood.

| Description | Size | Cat No. | Type |
|---|------------|----------|------|
| Thalassaemia (α & β) Control (Level 1) | 2 x 0.5 ml | BXC0665A | Lyo. |
| Thalassaemia (α & β) Control (Level 2) | 2 x 0.5 ml | BXC0665B | Lyo. |



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**SECTION 10
DRUGS
OF ABUSE**

Drug abuse refers to the use of illegal, prescription, or over-the-counter drugs for purposes other than those for which they are meant to be used, or in excessive amounts.

The Fortress Drugs of Abuse Controls, are available in a liquid stable (ready-to-use) format for convenience and ease-of-use, offer an independent assessment of performance for Drugs of Abuse Immunoassays, and are suitable for semi-quantitative and quantitative use. The Fortress Drugs of Abuse Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Drugs of Abuse Controls

- Fortress Drugs of Abuse controls are intended for checking assay performance of Drugs of Abuse Immunoassays.
- These controls are urine based and have concentrations 25% above and below the SAMHSA (Substance Abuse And Mental Health Services Administration) recommended cut off levels.
- Liquid stable controls (ready-to-use).
- Suitable for semi-quantitative and quantitative use.
- 2 years shelf life.
- 30 days open vial stability when stored at 2-8 °C.

Typical Values in Drugs of Abuse Control Levels

| Analyte | DOA Level (ng/ml) | DOA Level 2 (ng/ml) | DOA Level 3 (ng/ml) |
|-----------------|-------------------|---------------------|---------------------|
| Amphetamines | 600 | 900 | 1350 |
| Barbiturates | 100 | 400 | 1000 |
| Benzodiazepines | 102 | 250 | 600 |
| Cannabinoids | 50 | 90 | 150 |
| Cocaine | 300 | 275 | 400 |
| LSD | 0.05 | 0.1 | 0.2 |
| Methadone | 200 | 300 | 800 |
| Opiates | 1000 | 1500 | 6000 |
| Phencyclidine | 15 | 25 | 100 |
| Propoxyphene | 60 | 100 | - |

Analytes

| | | | |
|---|--------------------------------|-----------------------------|-------------------------------|
| Amphetamines Barbiturates Benzodiazepines | Cannabinoids Cocaine TCA | LSD Methadone Opiates | Phencyclidine Propoxyphene |
|---|--------------------------------|-----------------------------|-------------------------------|

| Description | Size | Cat No. | Type |
|----------------------------------|------------|----------|------|
| Drugs of Abuse Control (Level 1) | 10 x 10 ml | BXC0784A | LS |
| Drugs of Abuse Control (Level 2) | 10 x 10 ml | BXC0785A | LS |
| Drugs of Abuse Control (Level 3) | 10 x 10 ml | BXC0786A | LS |



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SECTION 11
HAEMATOLOGY

Haematology is the study of blood and blood disorders. The Fortress Haematology Controls combines 14 analytes, covering the most commonly tested blood profiles in a single control. With 3-part differential technology an unbiased, independent assessment of analytical performance.

The Fortress Haematology Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Haematology Controls & Calibrators



- Fortress Haematology calibrators are intended for calibrating 3 part differential analysers.
- The controls are intended for monitoring accuracy and precision in 3 part differential analysers.
- The product is supplied as a liquid stable material with storage at 2-8 °C.
- When opened, this product is stable for a period of 21 days, when stored at 2-8 °C.

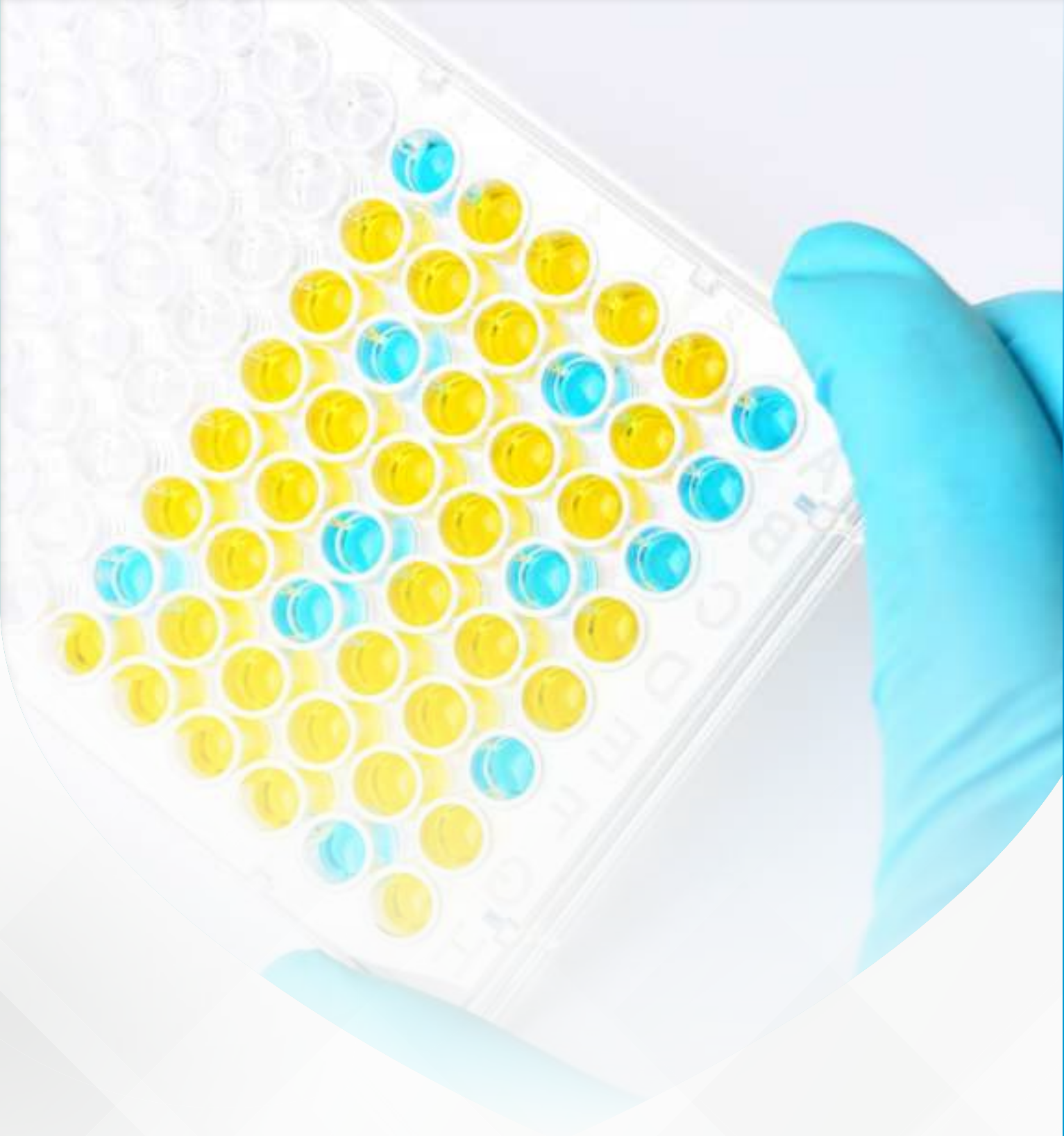
Values Available for the Following Analysers

Abbott Cell Dyn 1600/1700/1800, ABX Micros 60, 80/80XL, Coulter ACT 5 Diff, Coulter ACT Diff/ACT Diff 3, Coulter MD Series, Coulter STKS/MAXM/HMX, Coulter T890/T660/T540, Danam DATACELL 16CP/11800/18/18MS/18MS Plus, Siemens ADVIA 120/2120/1210i, Sysmex XE2100/XE5000/XT1800i/XT2000i/XS1000i, Sysmex KX21/K1000, ERMA PCE210, Merck Medonic CA620, Mindray BC1800/BC3000/BC-3000CT/BC3200/BC3000 Plus/BC2600/BC2800, Nihon Kohden CELLTAC Alpha MEK 6318, MEK 6410K, Fortress CellDiff 3, Swelab AC920, Medonic CA610, Abacus Junior.

Analytes

| | | | |
|-------------|-----------|--------------------|--------------------------------------|
| Haemoglobin | MCV | RDW SD | % & # Lymphocytes % & # Mid Cells |
| HCT | MPV | Total RBC | |
| MCH | Platelets | Total WBC | |
| MCHC | RDW CV | % & # Granulocytes | |

| Description | Size | Cat No. | Type |
|--------------------------------|--------------|----------|------|
| Haematology Calibrator | 3 x 3 ml | HAEMC005 | LS |
| Haematology Control (Level 1) | 3 x 3 ml | HAEMC001 | LS |
| Haematology Control (Level 2) | 3 x 3 ml | HAEMC002 | LS |
| Haematology Control (Level 2) | 3 x 3 ml | HAEMC003 | LS |
| Haematology Control, 3- LEVELS | 3 x 3 x 3 ml | HAEMC004 | LS |



SECTION 12
**IMMUNOASSAY/
INFECTIOUS DISEASES**

Immunoassay testing works on the principle of antigen-antibody reaction in the detection of disease. The Fortress Immunoassay Controls Range have been designed to cover a variety of the most comprehensive markers, including: thyroid hormones, fertility hormones, tumour markers, growth deficiency, allergy, diabetes, anaemia and steroids.

All Fortress controls in the Immunoassay range are manufactured from 100% human serum to negate matrix effects. The Fortress Immunoassay Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Immunoassay

Immunoassay Controls



- Fortress Immunoassay Controls are intended for monitoring accuracy and precision.
- Controls are provided in a Lyophilised format stable up to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8 °C or 4 week at -20 °C.
- Values are assigned in European reference laboratories.
- Over 60 analytes.

Analytes

| | | | | |
|--|---|--|----------------------------|--|
| Thyroid Hormones Total T3 Total T4 Free T3 Free T4 TSH T-uptake | Tumor Markers CEA AFP PSA fPSA Cardiac Markers Digoxin | Diabetes C-peptide Insulin | Anaemia Ferritin | Progesterone Testosterone DHEA-S |
| Fertility Hormones LH FSH Prolactin HCG | Growth Deficiency Human Growth Hormone | Steroids 17-OH Progesterone Cortisol Unconjugated Estriol | | |
| | Allergy IgE | | | |

| Description | Size | Cat No. | Type |
|-------------------------------|--------------|----------|------|
| Immunoassay Control (Level 1) | 4 x 3ml | BXC0363A | Lyo. |
| Immunoassay Control (Level 2) | 4 x 3ml | BXC0363B | Lyo. |
| Immunoassay Control (Level 3) | 4 x 3ml | BXC0363C | Lyo. |
| Immunoassay Tri-Level Control | 3 x 4 x 3 ml | BXC0363D | Lyo. |

Immunoassay Speciality



- Lyophilised stable to expiry at 2-8 °C
- 100% Human serum
- Reconstituted stability of 7 days at 2-8 °C or 28 days stored at -20 °C.

Analytes

| | | |
|---|-------------------------------|-----------------------------------|
| 1-25 (OH) Vitamin D Anti TG Anti TP | C Peptide IgF-I Insulin | Oestercalcin PTH Calcitonin |
|---|-------------------------------|-----------------------------------|

| Description | Size | Cat No. | Type |
|--|--------------|----------|------|
| Immunoassay Speciality (Level 1) | 1 x 2 ml | BXC0364A | Lyo. |
| Immunoassay Speciality (Level 2) | 1 x 2 ml | BXC0364B | Lyo. |
| Immunoassay Speciality (Level 3) | 1 x 2 ml | BXC0364C | Lyo. |
| Immunoassay Speciality Tri-Level Control | 3 x 1 x 2 ml | BXC0364D | Lyo. |

Anti-Mullerian Hormone (AMH) Calibrators & Controls

- Lyophilised for long shelf life, stable to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8°C.
- Compatible with all AMH assays.

| Description | Size | Cat No. | Type |
|---|---|----------|------|
| Anti-Mullerian Hormone (AMH) Calibrators & Controls | Cal A: 1 x 0.5ml; Cal B-G: 6 x 0.5ml; Ctl L1: 1 x 0.5ml; Ctl L2: 1 x 0.5ml | BXC0999A | Lyo. |

hCG Serum Control

- Fortress hCG Serum controls are intended for monitoring the accuracy and precision of hCG assays in both quantitative and qualitative formats.
- Controls are supplied as lyophilised materials stable up to expiry at 2-8 °C.
- The controls are available in two levels – positive and negative.
- Value assignment of the Positive Controls is performed in European reference laboratories.
- 100% Human serum based for matrix conformity.
- Positive control has a hCG concentration of ≥ 20 IU/ml, making it ideal for sensitivity testing of qualitative assays.

| Description | Size | Cat No. | Type |
|-------------------|----------|----------|------|
| hCG Serum Control | 1 x 1 ml | BXC0682A | Lyo. |
| hCG Serum Control | 1 x 1 ml | BXC0681A | Lyo. |
| hCG Serum Control | 1 x 5 ml | BXC0683A | Lyo. |

H-Pylori Control

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|-----------------------------|--------------|----------|------|
| H-Pylori Control (2 Levels) | 2 x 1 x 1 ml | BXC0684A | LS |

Tumour Marker Controls

For use on all major systems & Methods including Immunoassay Instruments

- Fortress Tumour marker controls are multi analyte controls designed for monitoring accuracy.
- The controls are supplied in a Lyophilised format for enhanced stability.
- 100% human serum.
- Reconstituted stability of 10 days at 2-8 °C and 30 days at 20 °C.
- Stable up to expiry at 2-8 °C.

Analytes

| | | | |
|---|--|--|------------------------------|
| AFP Beta-2-microglobulin CA 15-3 CA 19-9 | CA 72-4 CA 125 Calcitonin CEA | Cyfra 21 Ferritin HCG Neuron Specific Enolase | PSA FPSA Thyroglobulin |
|---|--|--|------------------------------|

| Description | Size | Cat No. | Type |
|---------------------------------|----------|----------|------|
| Tumour Marker Control (Level 1) | 5 x 2 ml | BXC0792A | Lyo. |
| Tumour Marker Control (Level 2) | 5 x 2 ml | BXC0792B | Lyo. |

Vitamin-D Calibrators & Controls

- Lyophilised product stable to expiry at 2-8 °C.
- Reconstituted stability of 30 days at 2-8°C.

| Description | Size | Cat No. | Type |
|--------------------------|----------|----------|------|
| VITAMIN-D Calibrator Set | 5 x 1 ml | BXC0475A | Lyo. |
| VITAMIN-D Control Set | 2 x 1 ml | BXC0474A | Lyo. |

Infectious diseases are illnesses caused by bacteria, viruses, and fungi, that enter the body, multiply and cause infection. Some infectious diseases are communicable, meaning that they are capable of spreading from one person to another.

The Fortress Infectious Diseases Controls are available in a liquid stable format for convenience and ease-of-use, being made from 100% human serum to negate matrix effects. The Fortress Infectious Diseases Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Infectious Diseases

HBsAb Control Panel



- 100% Human serum from single donors.
- The panel is supplied in 5 levels.
- Open vial stability of 60 days when stored at 2-8 °C without contamination.
- HBsAg Controls have the following concentrations; L1 0.2IU/ml, L2 0.5IU/ml, L3 1.0IU/ml, L4 2.0IU/ml, L5 4.0IU/ml.

| Description | Size | Cat No. | Type |
|--------------------------------|---------------|----------|------|
| HBsAb Control Panel (2 Levels) | 2 x 1 x 0.5ml | BXC0805A | LS |
| HBsAb Control Panel (5 Levels) | 5 x 1 x 0.5ml | BXC0800A | LS |

HCV Antibody Control Panel



- The control panel is supplied as a liquid panel stable up to expiry at 2-8 °C.
- 100% Human serum
- The panel is supplied in 4 levels.
- Open vial stability: 30 days at 2-8 °C without contamination.

| Description | Size | Cat No. | Type |
|---------------------------------------|---------------|----------|------|
| HCV Antibody Control Panel (4 Levels) | 4 x 1 x 0.5ml | BXC0804A | LS |

HIV-I Antibody Control Panel



- The control panel is supplied as a liquid panel stable up to expiry at 2-8 °C.
- 100% Human serum
- The panel is supplied in 4 levels.
- Open vial stability: 30 days at 2-8 °C without contamination.

| Description | Size | Cat No. | Type |
|---|-------------|----------|------|
| HIV-I Antibody Control Panel (4 Levels) | 4 x 1 x 1ml | BXC0802A | LS |

HIV-I Antigen (p24) Control Panel



- The control panel is supplied as a liquid panel stable up to expiry at 2-8 °C.
- 100% Human serum from single donors.
- The panel is supplied in 4 levels.
- Open vial stability: 30 days when stored at 2-8 °C without contamination.
 - Level 1 1.25U/ml
 - Level 2 2.50U/ml
 - Level 3 5.00U/ml
 - Level 4 10.00U/ml

| Description | Size | Cat No. | Type |
|--|----------------|----------|------|
| HIV-I Antigen (p24) Control Panel (4 Levels) | 4 x 1 x 0.5 ml | BXC0803A | LS |



Syphilis Control Panel

- The control panel is supplied as a liquid panel stable up to expiry at 2-8 °C.
- 100% Human serum from single donors.
- The panel is supplied in 6 levels.
- Open vial stability: 30 days when stored at 2-8 °C without contamination.

| Description | Size | Cat No. | Type |
|-----------------------------------|---------------|----------|------|
| Syphilis Control Panel (6 Levels) | 6 x 1 x 0.5ml | BXC0806A | LS |

Torch Controls Negative



- The Fortress TORCH Control Negative is intended for use in monitoring the specificity of TORCH Assays to rule out false positive reactions.
- The Control is supplied in a liquid stable format stable up to expiry at 2-8 °C.

| Description | Size | Cat No. | Type |
|------------------------|----------|----------|------|
| TORCH Control Negative | 3 x 1 ml | BXC0799A | LS |

Torch Controls Positive

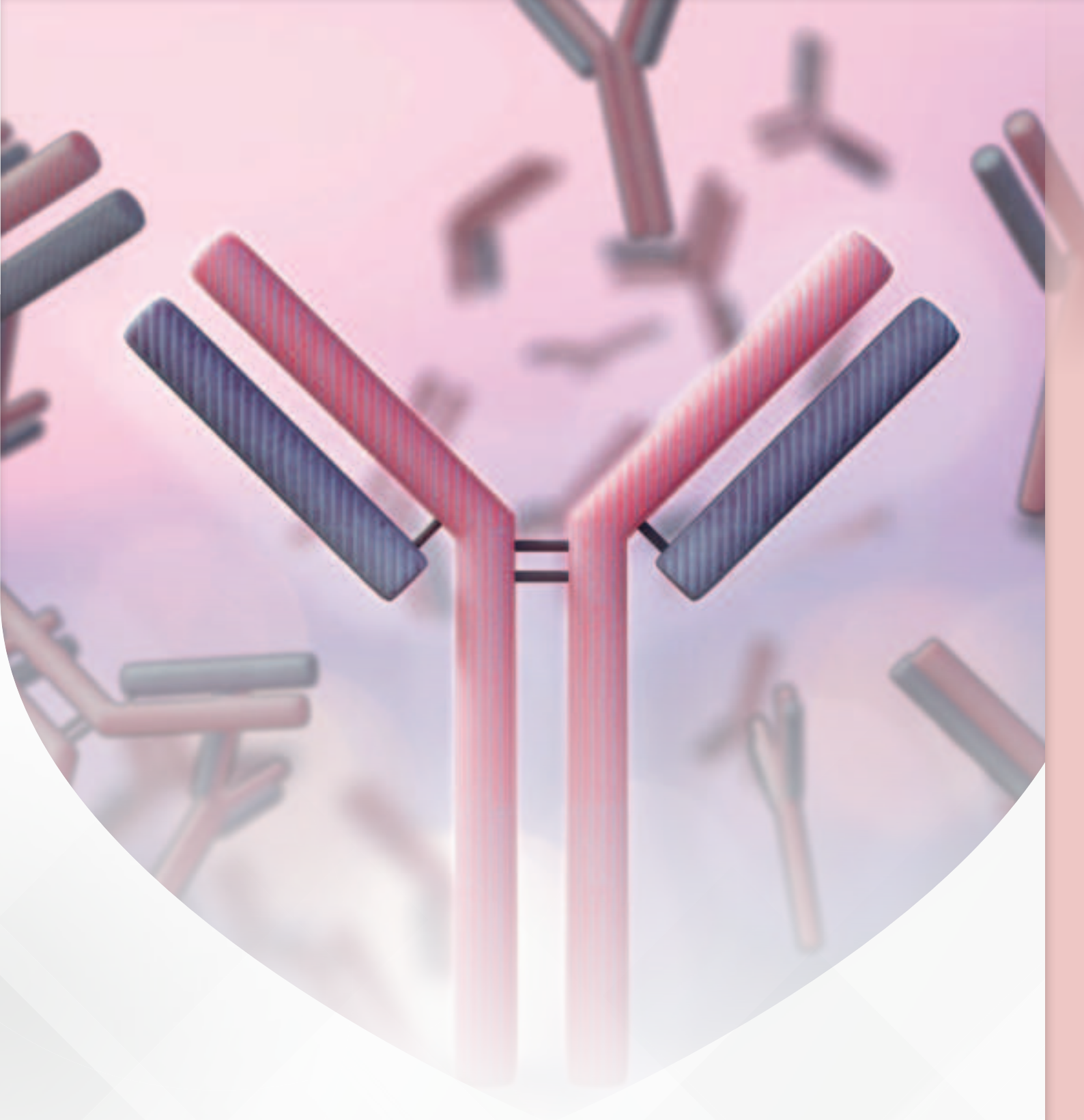


- The Fortress TORCH Control Positive is intended for use in monitoring precision of TORCH Assays.
- The control is supplied in a liquid stable format.
- The control is stable up to expiry at 2-8 °C.
- Values are assigned in European Reference Laboratories.
- TORCH-IgM controls are supplied individually to prevent cross-reactivity.
- TORCH-IgG controls are supplied together / vial.

Analytes

| | | | |
|--|--|--|--------------------------------------|
| IgG Toxoplasma Gondii IgG Rubella IgG CMV IgG HSV-1 IgG | HSV -2 IgG VZV IgG EBV IgG Syphilis IgG | IgM Toxoplasma Gondii IgM Rubella IgM CMV IgM HSV-1 IgM | HSV-2 IgM Syphilis RPR |
|--|--|--|--------------------------------------|

| Description | Size | Cat No. | Type |
|----------------------------|--------------|----------|------|
| TORCH Control Negative | 3 x 1 ml | BXC0799A | LS |
| TORCH IgG Control Positive | 3 x 1 ml | BXC0799B | LS |
| TORCH IgM Control Positive | 5 x 1 x 1 ml | BXC0799C | LS |



SECTION 13
**IMMUNOLOGY/
PROTEINS**

Immunology is the study of diseases caused by disorders of the immune system.

The majority of the Fortress Immunology/Protein Controls are available in a liquid stable format for convenience and ease-of-use and are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

APO A1/B Calibrator Series



- Lyophilised for long shelf life, stable to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8°C.

| Description | Size | Cat No. | Type |
|-----------------------------------|--------------|----------|------|
| APO A1/B Calibrator Series | 6 x 1 x 1 ml | BXC0413A | Lyo. |

ASO (Single Point) Calibrators



- Values are assigned by in house methods and instruments.
- 100% human material designed for matrix conformity.
- The liquid stable ASO Single point calibrator has a shelf life of 2 years when stored at 2-8 °C.
- Once opened the calibrator is stable for a period of 30 days when stored without contamination at 2-8 °C.

| Description | Size | Cat No. | Type |
|--------------------------------------|----------|----------|------|
| ASO (Single Point) Calibrator | 1 x 1 ml | BXC0323A | LS |
| ASO (Single Point) Calibrator | 3 x 1 ml | BXC0323B | LS |

ASO, CRP, RF Control



- This control is presented in a liquid stable format and is stable up to expiry when stored at 2-8 °C.
- The values are assigned in European Reference Laboratories.
- 100% Human serum designed for matrix conformity.
- Once opened the control is stable for a period of 30 days when stored without contamination at 2-8 °C.
- This material is presented in a liquid stable format and is stable up to expiry at 2-8 °C.

| Description | Size | Cat No. | Type |
|--------------------------------------|----------|----------|------|
| ASO (Single Point) Calibrator | 3 x 1 ml | BXC0645A | LS |

CRP Controls & Calibrators



- This control is presented in a liquid stable format and is stable up to expiry when stored at 2-8 °C.
- The values are assigned in European Reference Laboratories.
- 100% Human serum designed for matrix conformity.
- Once opened the control is stable for a period of 30 days when stored without contamination at 2-8 °C.

| Description | Size | Cat No. | Type |
|---|----------------|----------|------|
| CRP (Single Point) Calibrator | 3 x 1 ml | BXC0324A | LS |
| CRP (Multi Point) Calibrator | 6 x 1 x 1 ml | BXC0324B | LS |
| CRP (ULTRA SENSITIVE) Low Control | 3 x 1 ml | BXC0325A | LS |
| CRP (ULTRA SENSITIVE) Standard Set | 5 x 1 x 0.5 ml | BXC0327A | LS |
| CRP Control (Level 1) | 5 x 1 ml | BXC0326A | LS |
| CRP Control (Level 2) | 5 x 1 ml | BXC0326B | LS |

ESR Controls

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|------------------------------|-----------|----------|------|
| ESR Control (Level 1) | 2 x 10 ml | BXC0631A | LS |
| ESR Control (Level 2) | 2 x 10 ml | BXC0632A | LS |

IgE Calibrators & Controls

- Lyophilised product stable to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8°C.
- Reconstituted stability of 30 days at -20°C.

| Description | Size | Cat No. | Type |
|--|-------------|----------|------|
| IgE Calibrator | 1 x 1 ml | BXC0752A | Lyo. |
| IgE Control Set (Level 1 & Level 2) | 2 x 2 x3 ml | BXC0753A | Lyo. |

Protein Control

- This control is presented in a liquid stable format and is stable up to expiry when stored at 2-8 °C.
- Values are assigned by reference laboratories based in Europe.
- Values for Immunoglobulin, Inflammatory proteins, Complements, Carrier and Storage proteins are available in the control.
- 100% Human material designed for matrix conformity.
- Once opened the control is stable for a period of 30 days when stored without contamination at 2-8 °C.

Analytes

| | | | |
|--------------------------|-----------------------|-------------------------|-------------------------|
| Albumin | CRP | IgA | Lambda Light Chains |
| Alpha-1 Acidglycoprotein | C1q Inactivator | IgG | Prealbumin |
| Alpha-1 Antitrypsin | C1 Esterase Inhibitor | IgM | Free Lambda Light Chain |
| a2-Macroglobulin | Ceruloplasmin | IgE | Transferrin |
| ASO | Complement C3 | Kappa Light Chains | Total Protein |
| Antithrombin-III | Complement C4 | Retinol Binding Protein | |
| Beta-2-Microglobulin | Ferritin | Free Kappa Light Chain | |
| Beta-2-Microglobulin | Haptoglobin | Rheumatoid Factor | |

| Description | Size | Cat No. | Type |
|--|--------------|----------|------|
| Protein Control (Level 1) | 1 x 1 ml | BXC0638A | LS |
| Protein Control (Level 2) | 1 x 1 ml | BXC0639A | LS |
| Protein Control Set (L1 & L2) | 2 x 1 x 1 ml | BXC0640A | LS |
| Protein Control (Level 1) | 1 x 2 ml | BXC0641A | LS |
| Protein Control (Level 2) | 1 x 2 ml | BXC0642A | LS |
| Protein Control Set (L1 & L2) | 2 x 1 x 2 ml | BXC0642A | LS |

Retinol Binding Protein Control

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--|----------|----------|------|
| Retinol Binding Protein Control | 1 x 1 ml | BXC0995A | LS |



RF (Multi-Point) Calibrators

- This Calibrator is presented in a liquid stable format and is stable up to expiry when stored at 2-8 °C.
- The Calibrator is presented as a single level calibrator which can be diluted as necessary for calibrating RF Turbidimetric Assays.
- Values are assigned by in house methods and instruments.
- 100% human material designed for matrix conformity.
- Once opened the control is stable for a period of 30 days. when stored without contamination at 2-8 °C.

| Description | Size | Cat No. | Type |
|------------------------------------|----------|----------|------|
| RF (Multi-Point) Calibrator | 3 x 2 ml | BXC0325B | LS |
| RF (Multi-Point) Calibrator | 1 x 2 ml | BXC0612A | LS |

Specific Protein Calibrators

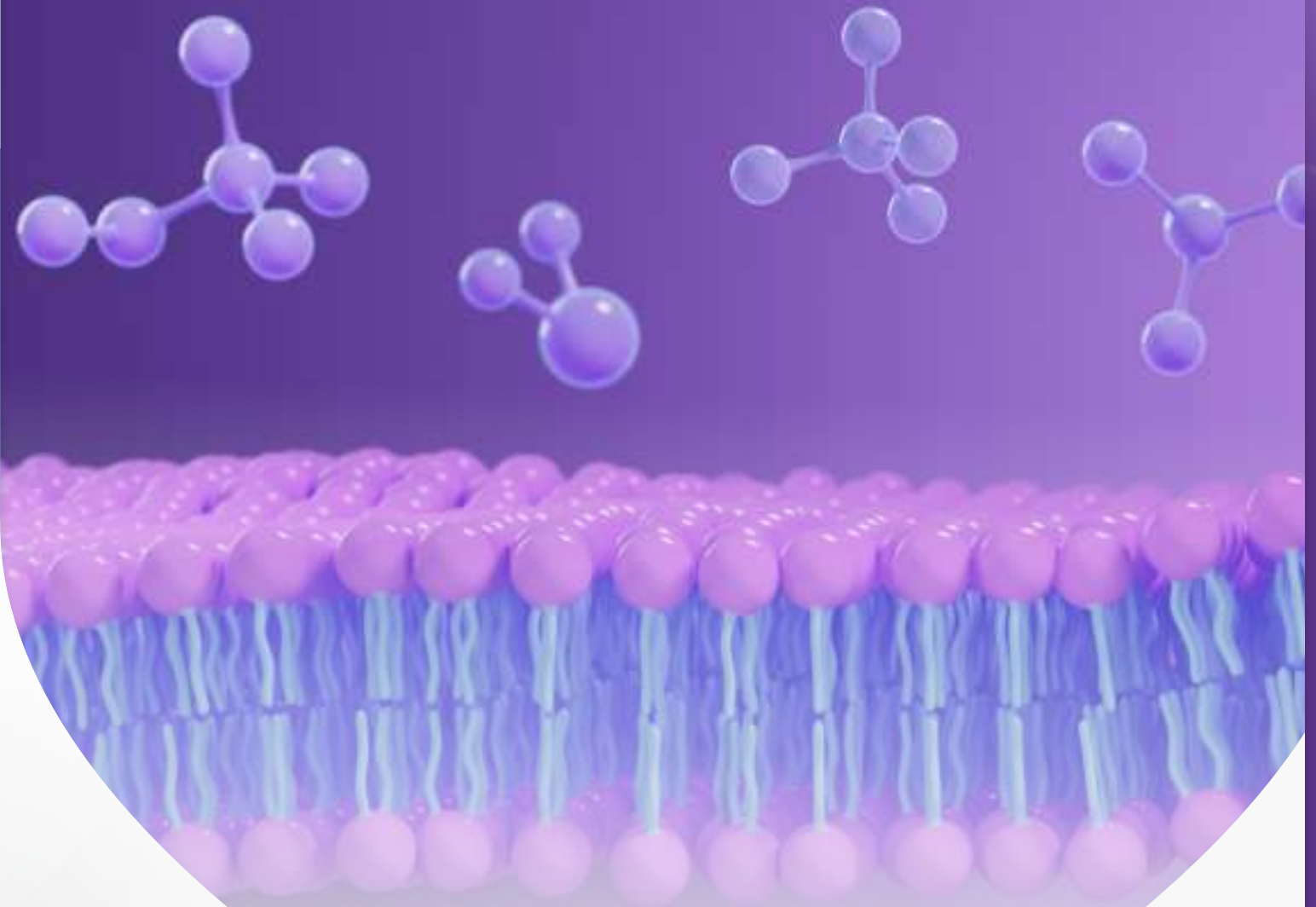


- Fortress Specific Protein Calibrator is a single level multi-analyte calibrator for use in automated systems with auto dilution facility.
- Fortress Specific Protein Calibrator set is a multi analyte multi level calibrator set for calibrating protein assays.
- Both the Calibrators are presented in a liquid stable format and is stable up to expiry when stored at 2-8 °C.
- 100% Human material designed for matrix conformity.
- Once opened, the calibrator is stable for a period of 30 days when stored without contamination at 2-8 °C.

Analytes

| | | | |
|--------------------------|-----------------------|-------------------------|-------------------------|
| Albumin | CRP | IgA | Lambda Light Chains |
| Alpha-1 Acidglycoprotein | C1q Inactivator | IgG | Prealbumin |
| Alpha-1 Antitrypsin | C1 Esterase Inhibitor | IgM | Free Lambda Light Chain |
| a2-Macroglobulin | Ceruloplasmin | IgE | Transferrin |
| ASO | Complement C3 | Kappa Light Chains | Total Protein |
| Antithrombin-III | Complement C4 | Retinol Binding Protein | |
| Beta-2-Microglobulin | Ferritin | Free Kappa Light Chain | |
| Beta-2-Microglobulin | Haptoglobin | Rheumatoid Factor | |

| Description | Size | Cat No. | Type |
|--|--------------|----------|------|
| Specific Protein Calibrator | 1 x 2 ml | BXC0644A | LS |
| Specific Protein Calibrator Set | 6 x 1 x 1 ml | BXC0646A | LS |



14

SECTION 14
LIPIDS

Lipids are fatty compounds that perform a variety of functions within the body. The Fortress Lipids Controls are lyophilised for enhanced stability and are suitable for automated and semi-automated systems. The multi-analyte controls offer test menu consolidation. The Fortress Lipid Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Glycerol Control



- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|------------------|----------|----------|------|
| Glycerol Control | 2 x 5 ml | BXC0278A | LS. |

HDL/LDL Calibrators



- Fortress HDL/LDL Cholesterol Calibrator is presented in a Lyophilised format for enhanced stability, stable up to expiry at 2-8 °C.
- Once opened and reconstituted the control is stable for 7 days at 2-8 °C, or 30 days at -20 °C.
- 100% human material designed for matrix conformity.

Analytes

HDL Cholesterol (Direct)

LDL Cholesterol (Direct)

| Description | Size | Cat No. | Type |
|--------------------|----------|----------|------|
| HDL/LDL Calibrator | 1 x 3 ml | BXC0315B | Lyo. |
| HDL/LDL Calibrator | 3 x 3 ml | BXC0315C | Lyo. |
| HDL/LDL Calibrator | 3 x 1 ml | BXC0315D | Lyo. |
| HDL/LDL Calibrator | 1 x 1 ml | BXC0315E | Lyo. |
| HDL/LDL Calibrator | 3 x 1 ml | BXC0315F | Lyo. |

Lipid Controls



- The Fortress Lipid Controls are intended for monitoring accuracy and precision.

Analytes

Apolipoprotein A1
Apolipoprotein B
Cholesterol

HDL Cholesterol (Precipitation)
HDL Cholesterol (Direct)
LDL Cholesterol (Direct)

LDL Cholesterol (Precipitation)
& Triglycerides

| Description | Size | Cat No. | Type |
|--|----------|----------|------|
| Lipid Control Elevated (Cholesterol, Triglycerides, APO A1, APO B, HDL, LDL) | 3 x 1 ml | BXC0316A | Lyo. |
| Lipid Control Normal (Cholesterol, Triglycerides, APO A1, APO B, HDL, LDL) | 3 x 1 ml | BXC0330A | Lyo. |
| Lipid Control Low (Cholesterol, Triglycerides, APO-A, APOB, HDL, LDL) | 3 x 1 ml | BXC0317A | Lyo. |



15

SECTION 15
MATERNAL
SCREENING

Maternal screening is used to detect some birth defects in pregnant women at various stages prior to birth.

The Fortress Maternal Screening Controls are available in a lyophilised format offering enhanced stability and are 100% human serum based to negate matrix effects. The Fortress Maternal Screening Controls are supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Anti-Mullerian Hormone (AMH) Calibrators & Controls

- Lyophilised for long shelf life, stable to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8°C.
- Compatible with all AMH assays.

| Description | Size | Cat No. | Type |
|---|---|----------|------|
| Anti-Mullerian Hormone (AMH) Calibrators & Controls | Cal A: 1 x 0.5ml; Cal B-G: 6 x 0.5ml; Ctl L1: 1 x 0.5ml; Ctl L2: 1 x 0.5ml | BXC0999A | Lyo. |

Maternal Screening Control

For screening of Down's syndrome & Spina Bifida compatible for use on most clinical chemistry systems including Immunoassay systems AFP, Fβ, hCG, Total hCG, UnConjugated Estriol, Inhibin-A, PAPP-A

- Screening Controls are multi analyte controls intended for use in monitoring accuracy and precision for assays used in First and second Trimester screening of Downs Syndrome and Spina Bifida.
- The Controls are provided in a Lyophilised format stable up to expiry at 2-8 °C.
- Reconstituted stability of 7 days at 2-8 °C.
- 100% human serum.

Analytes

| | | |
|----------------------|---------------------|-----------------------------------|
| AFP Free beta hCG | Inhibin A PAPP-A | Total hCG Unconjugated Estriol |
|----------------------|---------------------|-----------------------------------|

| Description | Size | Cat No. | Type |
|--------------------------------------|--------------|----------|------|
| Maternal Screening Control (Level 1) | 2 x 1 ml | BXC0695A | Lyo. |
| Maternal Screening Control (Level 2) | 2 x 1 ml | BXC0695B | Lyo. |
| Maternal Screening Control (Level 3) | 2 x 1 ml | BXC0695C | Lyo. |
| Maternal Screening Control Tri-Level | 3 x 1 x 1 ml | BXC0699A | Lyo. |

PAPP-A & fβhCG Controls

- The Controls are provided in a Lyophilised format stable up to expiry at 2-8 °C.
- 100% human serum.
- Reconstituted stability of 7 days at 2-8 °C.

| Description | Size | Cat No. | Type |
|----------------------------------|------------|----------|------|
| PAPP-A & fβhCG Control (Level 1) | 1 x 0.5 ml | BXC0337A | Lyo. |
| PAPP-A & fβhCG Control (Level 2) | 1 x 0.5 ml | BXC0338A | Lyo. |
| PAPP-A & fβhCG Control (Level 3) | 1 x 0.5 ml | BXC0339A | Lyo. |
| PAPP-A Control | 1 x 0.5 ml | BXC0240A | Lyo. |



16

**SECTION 16
NEONATAL
SCREENING**

Neonatal screening is used to detect conditions that are treatable, but are not clinically evident in infants shortly after birth. The Fortress Neonatal Screening Controls are dried blood spot (DBS) which ensures accurate, reliable and repeatable results.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

BCAA (Leucine) Calibrators & Controls

| Description | Cat No. | Type |
|--|----------|----------------|
| BCAA (Leucine) Calibrator | BXC0067A | Dry Blood Spot |
| BCAA (Leucine) (Level 1) | BXC0068A | Dry Blood Spot |
| BCAA (Leucine) (Level 2) | BXC0068B | Dry Blood Spot |
| BCAA (Leucine) (Level 3) | BXC0068C | Dry Blood Spot |
| BCAA (Leucine) (Level 4) | BXC0068D | Dry Blood Spot |
| BCAA (Leucine) (Control Set) L1/L2/L3/L4 | BXC0069A | Dry Blood Spot |

Dried Bloodspot Calibrators on Filter Paper for Neonatal Screening

| Description | Cat No. | Type |
|--|----------|------------|
| Dried Bloodspot Calibrators on filter paper for Neonatal Screening | BXC0059A | Blood Spot |

G-6-PDH Controls



- Values assigned by reference Laboratories in Europe.
- Stable to expiry at 2-8 °C.
- Reconstituted stability of 5 days at 2-8 °C.
- Typical Levels:
 - G-6-PDH Deficient Control : 100 - 200 U/L.
 - G-6-PDH Normal Control : 900 - 1400 U/L.

| Description | Size | Cat No. | Type |
|--------------------------------|----------|----------|------|
| G-6-PDH Control (Normal) | 1 x 1 ml | BXC0573B | Lyo. |
| G-6-PDH Control (Intermediate) | 1 x 1 ml | BXC0572B | Lyo. |
| G-6-PDH Control (Deficient) | 1 x 1 ml | BXC0572B | Lyo. |

PKU Calibrators & Controls

4 Levels of Phenylalanine.

| Description | Cat No. | Type |
|-------------------------------|----------|----------------|
| PKU Calibrator | BXC0064A | Dry Blood Spot |
| PKU (Level 1) | BXC0065A | Dry Blood Spot |
| PKU (Level 2) | BXC0065B | Dry Blood Spot |
| PKU (Level 3) | BXC0065C | Dry Blood Spot |
| PKU (Level 4) | BXC0065D | Dry Blood Spot |
| PKU (Control Set) L1/L2/L3/L4 | BXC0066A | Dry Blood Spot |

Total Galactose Calibrators & Controls

| Description | Cat No. | Type |
|---|----------|----------------|
| Total Galactose Calibrator | BXC0060A | Dry Blood Spot |
| Total Galactose (Level 1) | BXC0061A | Dry Blood Spot |
| Total Galactose (Level 2) | BXC0061B | Dry Blood Spot |
| Total Galactose (Level 3) | BXC0061C | Dry Blood Spot |
| Total Galactose (Level 4) | BXC0061D | Dry Blood Spot |
| Total Galactose (Control Set) L1/L2/L3/L4 | BXC0062A | Dry Blood Spot |



17

SECTION 17
PAEDIATRIC
CONTROLS

Paediatric testing is used to detect underlying medical conditions in children such as diabetes.

The Fortress Paediatric Control is lyophilised for enhanced stability and ensures accuracy and precision. Fortress Paediatric Controls is supplied with instrument and method specific assigned values.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Paediatric Control



- The Control is supplied in a Lyophilised format with a shelf life of 2 years when stored at 2-8°C.
- Reconstituted stability of 5 days at 2-8 °C.
- Excellent for clinical decision making.

Analytes

| | | | |
|-----------------------------------|---------------------|-----------------------------------|---------------------|
| ALP Bilirubin (Total & Direct) | Calcium Chloride | Inorganic Phosphorus Magnesium | Potassium Sodium |
|-----------------------------------|---------------------|-----------------------------------|---------------------|

| Description | Size | Cat No. | Type |
|--------------------|----------|----------|------|
| Paediatric Control | 3 x 1 ml | BXC0807A | Lyo. |



18

SECTION 18
SPECIALITY
CONTROLS

The Fortress Serum Indices Controls are designed to monitor the ability of an instrument to accurately measure lipaemia, icterus and haemolysis (LIH) in specimens.

The Fortress Serum Indices Controls are 100% human serum based to negate matrix effects and are compatible with a variety of clinical chemistry analysers.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

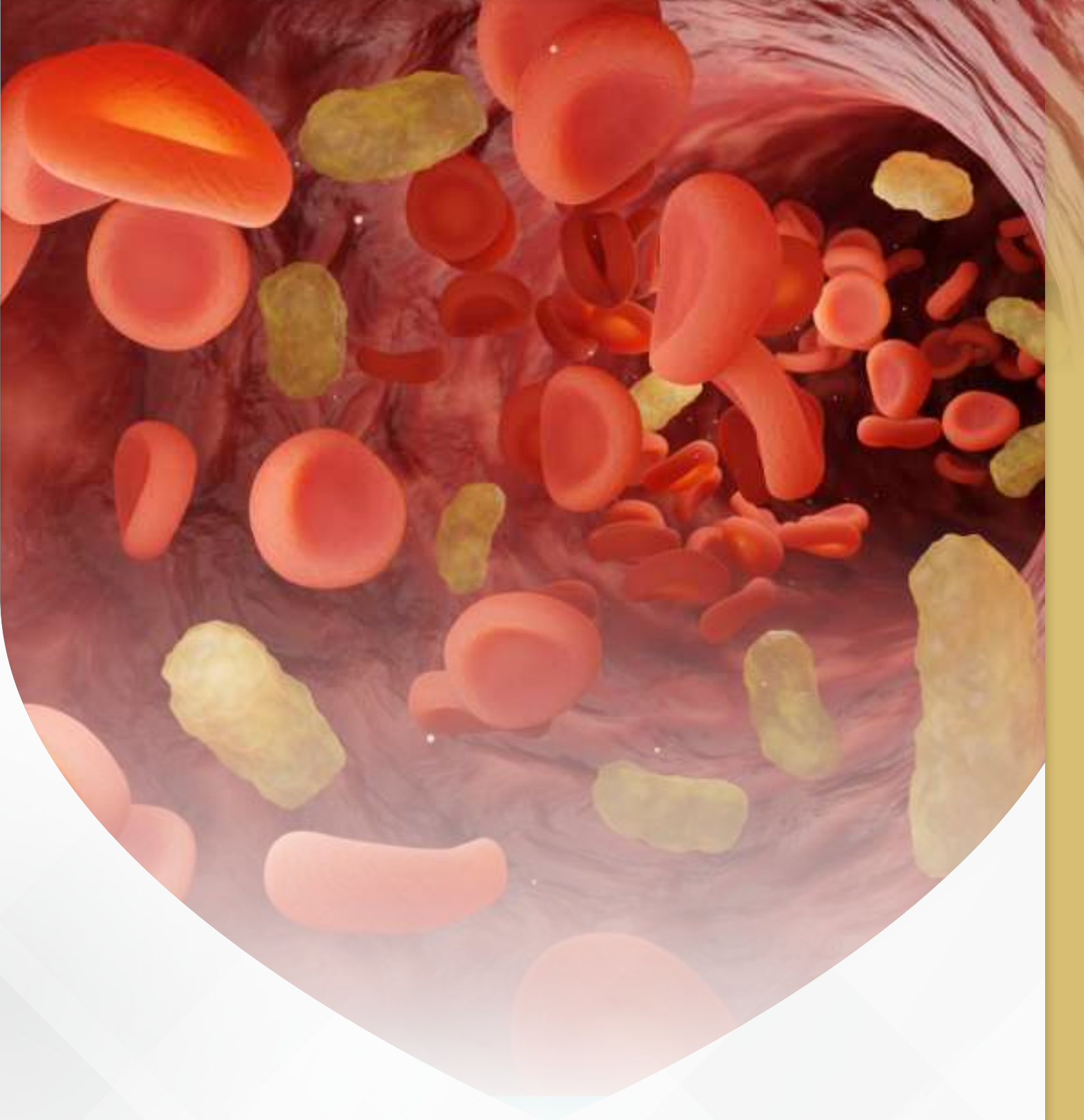
Serum Indices (LIH)



- Lyophilised for long shelf life.
- 100% Human based
- Stable to expiry date at 2-8°C.
- Reconstituted stability of 14 days at 2-8 °C.
- 4 levels available.

Analytes

| | Lipemia | Icterus | Haemolysis |
|--------------------|---------|--------------|------------------------|
| Description | | | |
| Haemolytic | | 4 x 5 ml | BXC0600E Liquid Frozen |
| Icteric | | 4 x 5 ml | BXC0600D Liquid Frozen |
| Lipaemic | | 4 x 5 ml | BXC0600C Liquid Frozen |
| Normal | | 4 x 5 ml | BXC0600B Liquid Frozen |
| LINH | | 4 x 1 x 5 ml | BXC0600A Liquid Frozen |
| LINH | | 3 x 4 x 5 ml | BXC0600F Liquid Frozen |
| Haemolytic | | 4 x 5 ml | BXC0601E Lyo. |
| Icteric | | 4 x 5 ml | BXC0601D Lyo. |
| Lipaemic | | 4 x 5 ml | BXC0601C Lyo. |
| Normal | | 4 x 5 ml | BXC0601B Lyo. |
| LINH | | 4 x 1 x 5 ml | BXC0601A Lyo. |
| LINH | | 3 x 4 x 5 ml | BXC0601F Lyo. |



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SECTION 19
THALASSAEMIA
CONTROLS

Thalassaemia testing is used to detect a group of inherited disorders that affect the amount of haemoglobin a person is able to produce.

The Fortress Thalassaemia Controls are designed to monitor the accuracy and precision of haemoglobin variant measurements associated with thalassaemia.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Thalassaemia Controls



- Designed for monitoring accuracy and precision of Haemoglobin Variant measurements associated with Thalassaemia.
- The controls are supplied in a Lyophilised format stable up to expiry at 2-8 °C.
- 100% Human blood.

Analytes

| | Haemoglobin F | Haemoglobin A2 | Haemoglobin S |
|---|---------------|----------------|---------------|
| Description | | | |
| Thalassaemia (α & β) Control Level 1 | | | |
| Thalassaemia (α & β) Control Level 2 | | | |
| HbA2 Control Set | | | |
| | Size | Cat No. | Type |
| | 2 x 0.5ml | BXCO665A | Lyo. |
| | 2 x 0.5ml | BXCO665B | Lyo. |
| | 2 x 2 x 0.5ml | BXCO778A | Lyo. |



20

SECTION 20
THERAPEUTIC
DRUGS

Therapeutic drug monitoring (TDM) is used to measure the amount of specific prescribed medications within the blood. The absorption and metabolism rate varies from person to person and as such, it is easy to over or under prescribe medication. Consequently, certain medications need to be closely monitored.

The Fortress Therapeutic Drug Controls are manufactured from 100% human serum to negate matrix effects and are lyophilised for enhanced stability.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Therapeutic Drug Monitoring



- The Fortress Therapeutic Drug Monitoring controls are intended for checking accuracy and precision.
- The controls are presented as multi analyte Lyophilised controls stable up to expiry at 2-8 °C.
- Reconstituted stability of 14 days when stored at 2-8 °C or 60 days at -20 °C.
- 100% Human serum designed for matrix conformity.

Analytes

| | | | | |
|---|--|--|---|-----------------------------|
| Amikacin Caffeine Carbamazepine Cyclosporine | Digoxin Ethosuxamide Gentamicin Lithium | Methotrexate Paracetamol Phenobarbitone Phenytoin | Primidone Salicylate Theophylline Tobramycin | Valproic Acid Vancomycin |
|---|--|--|---|-----------------------------|

| Description | Size | Cat No. | Type |
|---------------------------------------|----------|----------|------|
| Therapeutic Drug Monitoring (Level 1) | 5 x 5 ml | BXC0781A | Lyo. |
| Therapeutic Drug Monitoring (Level 2) | 5 x 5 ml | BXC0782A | Lyo. |
| Therapeutic Drug Monitoring (Level 3) | 5 x 5 ml | BXC0783A | Lyo. |



SECTION 21
URINE
CONTROLS

Urinalysis is a series of tests involving urine, used to detect for common conditions or diseases.

The Fortress Urine Controls are manufactured from 100% human serum to negate matrix effects and are available in both lyophilised and liquid stable formats offering flexibility to laboratories.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Citrate (Urinary) Calibrators & Controls

- The controls are presented in a Liquid format and are stable up to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|---|----------|----------|------|
| Citrate (Urinary) Calibrator [200mg/L] | 2 x 1 ml | BXC0136A | LS |
| Citrate (Urinary) Control (Level 1) [50mg/L] | 2 x 1 ml | BXC0137A | LS |
| Citrate (Urinary) Control (Level 2) [600mg/L] | 2 x 1 ml | BXC0139A | LS |

Microalbumin Calibrators & Controls

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.
- 100% Human urine

| Description | Size | Cat No. | Type |
|--------------------------------|----------|----------|------|
| Microalbumin Calibrator Series | 5 x 1 ml | BXC0329A | LS |
| Microalbumin Control (Level 1) | 2 x 1 ml | BXC0328A | LS |
| Microalbumin Control (Level 2) | 5 x 1 ml | BXC0328B | LS |

Oxalate Calibrators & Controls

- Liquid Stable (Ready-to-use) stable to expiry at 2-8 °C.
- Open vial stability of 30 days, at 2-8°C.

| Description | Size | Cat No. | Type |
|--|----------|----------|------|
| Oxalate (Urinary) Calibrator [0.5 mmol/L] | 1 x 5 ml | BXC0147A | LS |
| Oxalate (Urinary) Control (Level 1) [0.2 mmol/L] | 1 x 5 ml | BXC0148A | LS |
| Oxalate (Urinary) Control (Level 2) [0.7 mmol/L] | 1 x 5 ml | BXC0149A | LS |

Urine Assayed Controls

- Fortress Urine assayed controls are intended for monitoring precision and accuracy for Urine chemistry assays.
- The controls are presented as Lyophilised materials for increased stability, stable up to expiry at 2-8 °C.
- Values are assigned by reference laboratories in Europe.
- Reconstituted stability of 5 days 2-8 °C or 15 days at -20 °C.
- 100% human urine designed for matrix conformity.

Analytes

| | | | |
|---|---|---|--|
| SHIAA Amylase Calcium Chloride Copper Cortisol | Creatinine Dopamine Epinephrine Glucose Magnesium Metanephrine | Microalbumin Norepinephrine Normetanephrine Osmolality Oxalate Inorganic Phosphorous | Potassium Protein Sodium Urea Uric Acid VMA |
|---|---|---|--|

| Description | Size | Cat No. | Type |
|---------------------------------|------------|----------|------|
| Urine Assayed Control (Level 1) | 10 x 10 ml | BXC0661A | Lyo. |
| Urine Assayed Control (Level 2) | 10 x 10 ml | BXC0661B | Lyo. |

Urine Strip Controls



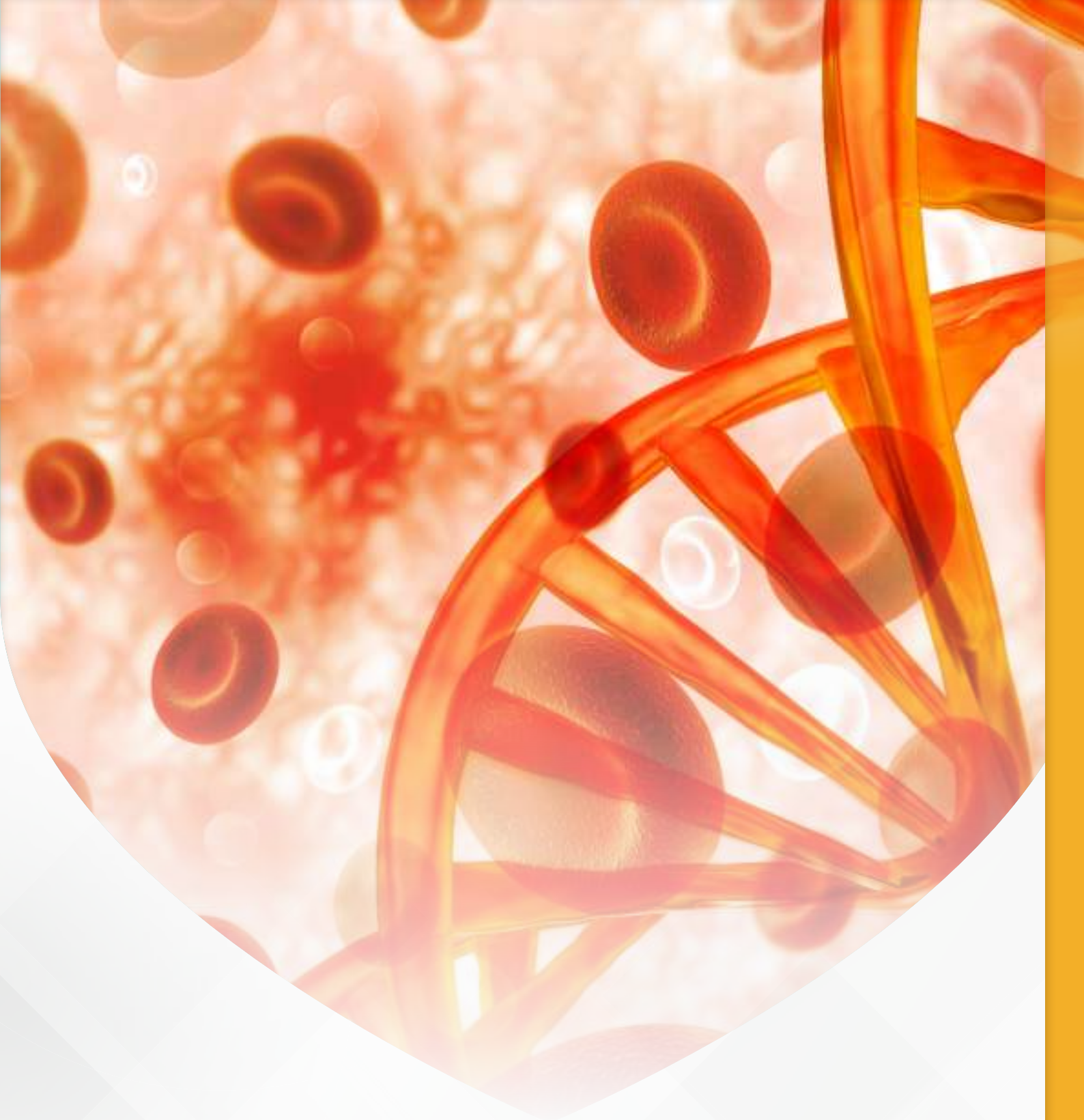
For Urine and hCG Strips Only

- Fortress urine Strip controls are designed for quality control of urine strips.
- Values are assigned by in house methods.
- The Fortress Urine Strip controls are provided in a liquid stable format with a increased stability, stable up to expiry at 2-8 °C.
- Open vial stability of 30 days when stored without contamination at 2-8 °C.
- Compatible with all urine strips from a variety of manufacturers.
- Reconstituted stability of 5 days 2-8 °C or 15 days at -20 °C.
- 100% human urine designed for matrix conformity.

Analytes

| | | | |
|------------|------------|------------------|--------------|
| Albumin | Glucose | Nitrites | Urobilinogen |
| Bilirubin | hCG | pH | |
| Creatinine | Ketones | Protein | |
| Blood | Leukocytes | Specific Gravity | |

| Description | Size | Cat No. | Type |
|-----------------------------------|---------------|----------|------|
| Urine Strip Control (Level 1 & 2) | 2 x 3 x 12 ml | BXC0663A | LS |



SECTION 22

**XANTHOCHROMIA
QUALITY CONTROLS**

Xanthochromia is derived from the Greek word “xanthos,” meaning yellow. The term was first used to describe the pink or yellow pigmentation of cerebrospinal fluid (CSF). This colour change is attributed to varying concentrations of pigmented compounds such as oxyhaemoglobin, bilirubin, and methaemoglobin, which are typically the by-products of red blood cell degradation.

The term is now more widely accepted to represent the yellow colour created by the presence of bilirubin in the CSF. The presence of bilirubin, resulting in yellow discoloration of the CSF, is the contemporary definition of xanthochromia. It can be diagnosed by 2 methods: the traditional visualization or eye test, and the more sensitive and specific spectrophotometry.

Detection of Xanthochromia has been facilitated since the 1950s by the spectrophotometric analysis of CSF but is usually possible by simple visual inspection of a sample held in front of a white piece of paper. Heme pigments can be found in CSF within 12 h of subarachnoid bleeding, reach peak levels after 36–48 h, and typically disappear over the next 7–10 days.

Bilirubin accumulation in CSF may occur via intrathecal conversion from haemoglobin-heme within macrophages and other leptomeningeal cells, or by passive diffusion from the circulation during periods of severe jaundice. In this latter setting, CSF is not usually stained until the total plasma bilirubin reaches 10–15 mg/dl. The presence of bilirubin in CSF is the main cause of xanthochromia associated with high spinal fluid protein content, usually found above levels of 150 mg/dl.

Fortress Diagnostics Ltd. has been manufacturing Xanthochromia Controls for a number of years intended for use as a true third party control in monitoring the performance of Bilirubin and Oxyhaemoglobin in Cerebrospinal Fluid. Xanthochromia Controls are supplied as unassayed and are suitable for use as IQC with various UV spectrophotometers. It is designed to deliver a cost-effective control to users.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Xanthochromia Quality Control



- Lyophilised format for convenience and longer shelf life.
- Human Based Material.
- True Third Party control providing unbiased assessment of performance.
- Open reconstituted Vial stability of 2 days at 2° to 8°C. Stable for 1 year when stored unopened at 2° to 8°C.

Analytes

| | |
|-----------|----------------|
| Bilirubin | Oxyhaemoglobin |
|-----------|----------------|

| Description | Size | Cat No. | Type |
|--------------------------------|----------|-----------|------|
| Xanthochromia Positive Control | 3 x 1 ml | BXC03555A | Lyo. |



23

SECTION 23
IQC
PROGRAMMES

The Seraqual 365 IQC Management Software is a peer data QC programme designed for use with Seraqual Controls. It provides a cost effective and comprehensive package for labs who need to manage their daily QC activities on a centralized platform in real time.

Seraqual 365



SERAQUAL 365

IQC Management Software



**Simple, Easy to Use
Peer Comparison
Tool**



**Real Time Data
on a Centralised
Platform**



**Cost Effective &
Comprehensive QC Data
Management Software**

The system has a number of features to enhance data review and trouble shooting within a lab to include:

- **A dashboard interface** that presents condensed options of the features of the system showing options most frequented. It also flags any exceptions for review
- **A simple easy to use interface** that allow labs to configure and enter results easily with a need for minimal training
- **Interactive charts** for quick and easy performance review to include Histogram and Levey –Jennings
- **Exceptions reports** so data from a specified date range can be reviewed quickly
- **Statistical Comparison Report** can be in a specified date range and at either the instrument, method or all method level.
- **Peer Group Statistics** allowing you to compare your results with other labs using the same QC material
- **Advanced Statistical Analysis** that includes performance indicators such as Uncertainty of Measurement (UM), Bias, Total Error (TE) and Sigma Scores.

Software Overview

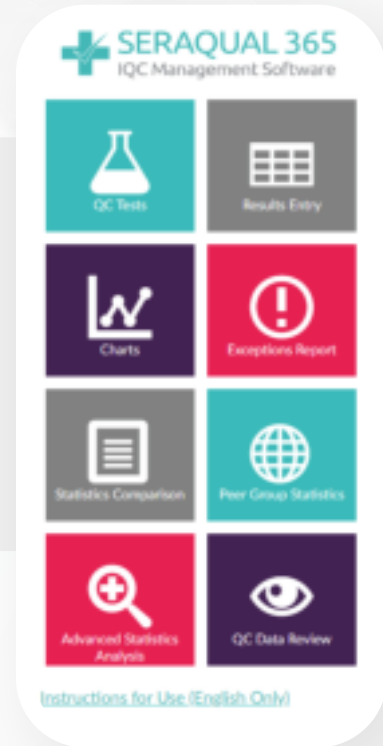
1

Dashboard

Presents condensed options of the features of the system showing options most frequented.

A full list of features that the system offers is available from the drop down at the top left hand corner.

It also flags any exceptions for review to allow rapid identification of any QC problems and allow quick and effective corrective action.



2

QC Tests



This option allows a lab to quickly see the instruments registered, the programmes and lots associated with these instruments and then the associated QC test.

Here a lab can also set the Target mean and SD of a test (cumulative, user defined or Seraqual 365 (targets available for selected assayed lots)).

3

Result Entry

A simple feature to allow easy manual addition of results.

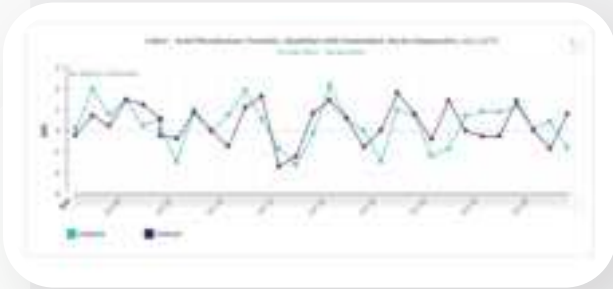
An alarm is activated if a result entered violates a multi rule set.

There are also indicators to show when a result has been edited, commented upon or reviewed.



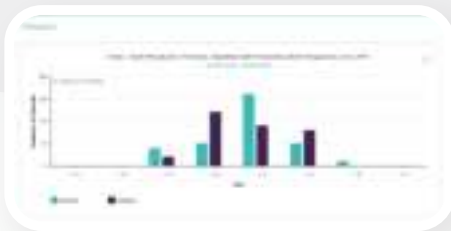
4

Charts



The Levey Jennings and Histograms interactive charts that can be generated within a specific date range are invaluable for identifying data shifts and trends.

The charts can be downloaded, saved, annotated and printed for the users convenience.



5

Exceptions Report

The Exceptions Report presents all results that have violated the multi rules set in a date range that can be specified.

Through colour coding it identifies the violated rules that are 'Alert' and those that are 'Reject'.

Any comments associated with a result are also detailed.

Exceptions Report

Index - Chemistry Lab - Roche Cobas c811

Acid Phosphatase Protein, Reagent with Potassium, Roche Diagnostics, ML37E

| DATE | TIME | OPERATOR | HONEY | | HONEY | |
|------------|-------|----------|--------|-------|--------|-------|
| | | | RESULT | SD | RESULT | SD |
| 2023/11/01 | 10:00 | FC | 10.000 | 0.000 | 10.000 | 0.000 |

Urea (Creat, BCL 3P Siemens S.A.), pmol/L

| DATE | TIME | OPERATOR | HONEY | | HONEY | |
|------------|-------|----------|--------|-------|--------|-------|
| | | | RESULT | SD | RESULT | SD |
| 2023/11/01 | 10:00 | FC | 0.200 | 0.010 | 0.200 | 0.010 |

6

Statistics Comparison Report

A worldwide and country comparison of statistics at either the Instrument, Method or All Method level is available in this report.

A date range can be specified.

This report includes performance indicators such as Mean, SD, CV%, Bias %, SDI and CVI.

Statistics Comparison Report

Roche Diagnostics - Chemistry Lab - Roche Cobas c811

| ID | METHOD | UNIT | ALL | | ALL | | ALL | | ALL | | ALL | |
|-----|--|--------|--------|-------|-------|-------|------|------|------|------|------|-------|
| | | | MEAN | SD | CV% | BIAS% | SDI | CVI | MEAN | SD | CV% | BIAS% |
| 101 | Acid Phosphatase Protein, Reagent with Potassium, Roche Diagnostics, ML37E | U/L | 10.000 | 0.000 | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | Urea (Creat, BCL 3P Siemens S.A.), pmol/L | pmol/L | 0.200 | 0.010 | 5.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

7

Peer Group Statistics

A lab can select World or Country Statistics for a chosen Control Type and Lot.

The peer group can be at a number of different levels as seen in the image.

The report includes Mean, SD, CV% and the number of labs.



8

Advanced Statistics Report

This report draws on a number of important statistical metrics that include Mean, SD, CV%, Uncertainty of Measurement (UM), Bias, TE, Sigma (BV) and Sigma (CLIA).

The report can be based at either the Instrument, Method or All Method Level and if required within a specified date range.

9

QC Data Review

A lab selects a date range (instrument, lot and assay selection is optional) and the report generated displays any results that have not yet been reviewed.

Results violating a multirule are highlighted according to their Alert or Reject status.

A reviewer has the ability to set all the results to reviewed or individually look at results and comment.

This function allow quick and easy identification of tests that may be problematic.

Additional Features

- ✓ Programme available in English, Spanish, Chinese, Farsi and Arabic.
- ✓ Co-ordinators have the ability to look at the Statistics Comparison Report and Advanced Statistical Analysis Report of the labs they are responsible for.
- ✓ Instruction for Use available on the Software
- ✓ Automatic deactivations of peer data to maintain the integrity of the data

For further information please contact admin@seraqual365.com



24

SECTION 24
ANALYTE
INDEX

| | Aldolase Calibrator | Aldolase Controls | Ammonia Calibrator | Ammonia Control | Aso Single Point Calibrator | Aso, Cfp, Rf Controls | Bilirubin Calibrator | Bilirubin Control | Blood Gas & Electrolyte Controls | Bovine Assayed Controls | Bovine Precision Controls | Calibration Serum | Cardiac Controls | Ck Ck Mb Calibrator | Ck Ck Mb Controls | Co, Calibrator & Controls | Co, Control | Coagulation Calibrator & Controls | Coagulation Controls | Crp Calibrator | Crp Controls | Crp (Ultrasecutive Std Set) | Crp (Ultrasecutive) Controls | Csf Controls | Cyanmethaemoglobin Std Set | Cystatin C Calibrator Set | Cystatin C Control | Drugs Of Abuse Controls | Electrolyte Controls | |
|-----------------------|---------------------|-------------------|--------------------|-----------------|-----------------------------|-----------------------|----------------------|-------------------|----------------------------------|-------------------------|---------------------------|-------------------|------------------|---------------------|-------------------|---------------------------|-------------|-----------------------------------|----------------------|----------------|--------------|-----------------------------|------------------------------|--------------|----------------------------|---------------------------|--------------------|-------------------------|----------------------|--|
| 5-Hiaa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-OH-Progesterone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A-1-Acid Glycoprotein | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A-1 Anti Trypsin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A-2 Macroglobulin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A Hbdh | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| B-2 Microglobulin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A/G Ratio | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | |
| Acetaminophen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acid Phosphatase | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Aptt | | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | |
| Albumin | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | ✓ | | | | | | |
| Aldolase | ✓ | ✓ | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Alp | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Afp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alt/Sgpt | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Amikacin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ammonia | | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amylase | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Amylase Pancreatic | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Anti-Hcv | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anti-Hiv | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aso | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | |
| Antithrombin Iii | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apo A1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apo B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ast/Sgot | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Barbiturates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | |
| Benzodiazepines | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | |
| Bilirubin Direct | | | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Bilirubin Total | | | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Blood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 Esterase Inhibitor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ca 15-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ca 19-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ca 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Calcium | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Cannabinoids | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | |
| Carbamazepine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cea | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ceruloplasmin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloride | | | | | | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | ✓ | | | | | | |



| Fructosamine Calibrator | Fructosamine Controls | Haematology Calibrator | Haematology Controls | Hba1c Calibrator | Hba1c Controls | Hbsag Control Panel | Hcg Controls | Homocysteine Calibrator | Homocysteine Controls | Human Assayed Controls | Human Precision Controls | Immunoassay Controls | Lipid Calibrator | Lipid Controls | Lipoprotein (A) Calibrator & Control | Microalbumin Calibrator | Microalbumin Controls | Protein Calibrators | Protein Controls | RF Multipoint Calibrator | RF Controls | Tdm Controls | Thalassaemia Controls | Tumour Marker Controls | Urine Assayed Controls | Urine Precision Controls | Urine Strip Controls | |
|-------------------------|-----------------------|------------------------|----------------------|------------------|----------------|---------------------|--------------|-------------------------|-----------------------|------------------------|--------------------------|----------------------|------------------|----------------|--------------------------------------|-------------------------|-----------------------|---------------------|------------------|--------------------------|-------------|--------------|-----------------------|------------------------|------------------------|--------------------------|----------------------|-----------------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 5-Hiaa | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 17-OH-Progesterone |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | A-1 Acid Glycoprotein |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | A-1 Anti Trypsin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | A-2 Macroglobulin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | A Hbdh |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | B-2 Microglobulin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | A/G Ratio |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Acetaminophen |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Acid Phosphatase |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Appt |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Albumin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Aldolase |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Alp |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Afp |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Alt/Sgpt |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Amikacin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ammonia |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Amylase |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Amylase Pancreatic |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Anti-Hcv |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Anti-Hiv |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Aso |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Antithrombin Iii |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Apo A1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Apo B |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ast/Sgot |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Barbiturates |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Benzodiazepines |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Bilirubin Direct |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Bilirubin Total |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Blood |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | C1 Esterase Inhibitor |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ca 15-3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ca 19-9 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ca 125 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Calcium |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Cannabinoids |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Carbamazepine |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Cea |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Ceruloplasmin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Chloride |

Blood Gas
 Clinical Chemistry
 Diabetes
 Haematology
 Immunology
 Thalassaemia
 Urine
 Cardiac
 Coagulation
 Drugs Of Abuse
 Immunoassay
 Lipids
 Therapeutic

| | Aldolase Calibrator | Aldolase Controls | Ammonia Calibrator | Ammonia Control | Aso Single Point Calibrator | Aso, Cfp, RF Controls | Bilirubin Calibrator | Bilirubin Control | Blood Gas & Electrolyte Controls | Bovine Assayed Controls | Bovine Precision Controls | Calibration Serum | Cardiac Controls | Ck Ck Mb Calibrator | Ck Ck Mb Controls | Co ₂ Calibrator & Controls | Co ₂ Control | Coagulation Calibrator & Controls | Coagulation Controls | Crp Calibrator | Crp Controls | Crp (Ultrasecutive Std Set) | Crp (Ultrasecutive) Controls | Csf Controls | Cyanmethaemoglobin Std Set | Cystatin C Calibrator Set | Cystatin C Control | Drugs Of Abuse Controls | Electrolyte Controls |
|---------------------|---------------------|-------------------|--------------------|-----------------|-----------------------------|-----------------------|----------------------|-------------------|----------------------------------|-------------------------|---------------------------|-------------------|------------------|---------------------|-------------------|---------------------------------------|-------------------------|-----------------------------------|----------------------|----------------|--------------|-----------------------------|------------------------------|--------------|----------------------------|---------------------------|--------------------|-------------------------|----------------------|
| Cholesterol Hdl | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| Cholesterol Ldl | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| Cholesterol Total | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| Cholinesterase | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| Ck Total | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | |
| Ck Mb | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | |
| Co ₂ | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | |
| Cocaine | | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | |
| Complement C 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complement C 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| Cortisol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-Peptide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crp | | | | | ✓ | | | | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | | | | | |
| Creatinine | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| Cyclosporine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cystatin C | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | ✓ | | |
| D - Amphetamine | | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | |
| D - Methamphetamine | | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | |
| Dheas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digitoxin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digoxin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estradiol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estriol Ue 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ferritin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrinogen | | | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | |
| Fructosamine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fsh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ggt | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| Glucose | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | ✓ | | | | |
| Granulocytes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haptoglobin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hbsag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hcg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hcg-B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haematocrit (Hct) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haemoglobin | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | |
| Haemoglobin A1c | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haemoglobin A2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haemoglobin F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haemoglobin S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Fructosamine Calibrator | Fructosamine Controls | Haematology Calibrator | Haematology Controls | Hba1c Calibrator | Hba1c Controls | Hbsag Control Panel | Hcg Controls | Homocysteine Calibrator | Homocysteine Controls | Human Assayed Controls | Human Precision Controls | Immunoassay Controls | Lipid Calibrator | Lipid Controls | Lipoprotein (A) Calibrator & Control | Microalbumin Calibrator | Microalbumin Controls | Protein Calibrators | Protein Controls | RF Multipoint Calibrator | RF Controls | Tdm Controls | Thalassaemia Controls | Tumour Marker Controls | Urine Assayed Controls | Urine Precision Controls | Urine Strip Controls | |
|-------------------------|-----------------------|------------------------|----------------------|------------------|----------------|---------------------|--------------|-------------------------|-----------------------|------------------------|--------------------------|----------------------|------------------|----------------|--------------------------------------|-------------------------|-----------------------|---------------------|------------------|--------------------------|-------------|--------------|-----------------------|------------------------|------------------------|--------------------------|----------------------|-------------------|
| | | | | | | | | | | ✓ | ✓ | | ✓ | ✓ | | | | | | | | | | | | | Cholesterol Hdl | |
| | | | | | | | | | | ✓ | ✓ | | ✓ | ✓ | | | | | | | | | | | | | | Cholesterol Ldl |
| | | | | | | | | | | ✓ | ✓ | | ✓ | ✓ | | | | | | | | | | | | | | Cholesterol Total |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Cholinesterase |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Ck Total |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Ck Mb |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Co ₂ |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Cocaine |
| | | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | Complement C3 |
| | | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | Complement C4 |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Copper |
| | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | Cortisol |
| | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | C-Peptide |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | ✓ | | | | | | | | | Crp |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | ✓ | | Creatinine |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Cyclosporine |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Cystatin C |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | D-Amphetamine |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | D-Methamphetamine |
| | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | Dheas |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Digitoxin |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Digoxin |
| | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | Estradiol |
| | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | Estriol Ue 3 |
| | | | | | | | | | | | | ✓ | | | | | | ✓ | ✓ | | | | | | | | | Ferritin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Fibrinogen |
| ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | Fructosamine |
| | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | Fsh |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Ggt |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Glucose |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Granulocytes |
| | | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | Haptoglobin |
| | | | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | Hbsag |
| | | | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | Hcg |
| | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | Hcg - B |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Haematocrit (Hct) |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Haemoglobin |
| | | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | Haemoglobin A1c |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Haemoglobin A 2 |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Haemoglobin F |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Haemoglobin S |



| Analyte | Aldolase Calibrator | Aldolase Controls | Ammonia Calibrator | Ammonia Control | Aso Single Point Calibrator | Aso, Crp, RF Controls | Bilirubin Calibrator | Bilirubin Control | Blood Gas & Electrolyte Controls | Bovine Assayed Controls | Bovine Precision Controls | Calibration Serum | Cardiac Controls | Ck Ck Mb Calibrator | Ck Ck Mb Controls | Co ₂ Calibrator & Controls | Co ₂ Control | Coagulation Calibrator & Controls | Coagulation Controls | Crp Calibrator | Crp Controls | Crp (Ultrasensitive Std Set) | Crp (Ultrasensitive) Controls | Csf Controls | Cyanmethaemoglobin Std Set | Cystatin C Calibrator Set | Cystatin C Control | Drugs Of Abuse Controls | Electrolyte Controls | |
|---------------------|---------------------|-------------------|--------------------|-----------------|-----------------------------|-----------------------|----------------------|-------------------|----------------------------------|-------------------------|---------------------------|-------------------|------------------|---------------------|-------------------|---------------------------------------|-------------------------|-----------------------------------|----------------------|----------------|--------------|------------------------------|-------------------------------|--------------|----------------------------|---------------------------|--------------------|-------------------------|----------------------|--|
| High | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Homoysteine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hs-Crp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iga | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Igg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ige | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Igm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insulin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron TIBC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron Ubc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kappa Light Chains | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ketones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lactate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lambda Light Chains | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ldh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipoprotein (A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lithium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lsd | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphocytes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Magnesium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mdma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mcv | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mpv | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metanephrins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methadone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methamphetamine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methotrexate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microalbumin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nitrite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Norepinephrine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Normetanephrine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Opiates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osmolality | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pco ₂ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Po ₂ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Blood Gas
Cardiac
Clinical Chemistry
Coagulation
Diabetes
Drugs Of Abuse
Haematology
Immunology
Immunology
Lipids
Thalassaemia
Therapeutic
Urine

| Control Type | High | Homocysteine | Hs-Crp | IgA | IgG | IgE | IgM | Insulin | Iron | Iron TIBC | Iron UIBc | Kappa Light Chains | Ketones | Lactate | Lambda Light Chains | Ldlh | Lipase | Lipoprotein (A) | Lithium | Lsd | Lymphocytes | Magnesium | Mdma | Mch | Mcv | Mpv | Metanephrines | Methadone | Methamphetamine | Methotrexate | Microalbumin | Nitrite | Norepinephrine | Normetazepirine | Opiates | Osmolality | Pco ₂ | Po ₂ | Ph | | | |
|--------------------------------------|------|--------------|--------|-----|-----|-----|-----|---------|------|-----------|-----------|--------------------|---------|---------|---------------------|------|--------|-----------------|---------|-----|-------------|-----------|------|-----|-----|-----|---------------|-----------|-----------------|--------------|--------------|---------|----------------|-----------------|---------|------------|------------------|-----------------|----|--|--|--|
| Fructosamine Calibrator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fructosamine Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haematology Calibrator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haematology Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hba1c Calibrator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hba1c Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hbsag Control Panel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hcg Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Homocysteine Calibrator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Homocysteine Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Human Assayed Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Human Precision Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Immunoassay Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipid Calibrator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipid Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lipoprotein (A) Calibrator & Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microalbumin Calibrator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microalbumin Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protein Calibrators | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protein Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Multipoint Calibrator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tdm Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thalassaemia Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tumour Marker Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urine Assayed Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urine Precision Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urine Strip Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Blood Gas
Cardiac
Clinical Chemistry
Coagulation
Diabetes
Drugs Of Abuse
Haematology
Immunoassay
Immunology
Lipids
Thalassaemia
Therapeutic
Urine

| Analyte | Aldolase Calibrator | Aldolase Controls | Ammonia Calibrator | Ammonia Control | Aso Single Point Calibrator | Aso, Crp, RF Controls | Bilirubin Calibrator | Bilirubin Control | Blood Gas & Electrolyte Controls | Bovine Assayed Controls | Bovine Precision Controls | Calibration Serum | Cardiac Controls | Ck Ck Mb Calibrator | Ck Ck Mb Controls | Co ₂ Calibrator & Controls | Co ₂ Control | Coagulation Calibrator & Controls | Coagulation Controls | Crp Calibrator | Crp Controls | Crp (Ultrasensitive Std Set) | Crp (Ultrasensitive) Controls | Csf Controls | Cyanmethaemoglobin Std Set | Cystatin C Calibrator Set | Cystatin C Control | Drugs OF Abuse Controls | Electrolyte Controls | |
|-----------------------|---------------------|-------------------|--------------------|-----------------|-----------------------------|-----------------------|----------------------|-------------------|----------------------------------|-------------------------|---------------------------|-------------------|------------------|---------------------|-------------------|---------------------------------------|-------------------------|-----------------------------------|----------------------|----------------|--------------|------------------------------|-------------------------------|--------------|----------------------------|---------------------------|--------------------|-------------------------|----------------------|--|
| RdW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenobarbital | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenacetylline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenytoin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phosphorous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Platelets (Pl) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Platelet(RPct) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Potassium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prealbumin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prolactin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protein (Total) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prothrombin Time(Pt) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Psa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Psa Free | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Blood Cells (Rbc) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RdW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rheumatoid Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sodium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Specific Gravity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T3 Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T3 Free | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-Uptake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4 Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4 Free | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testosterone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theophylline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombin Time (TT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tobramycin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transferrin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tricyclics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Triglycerides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Troponin I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Troponin T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tsh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urea | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uric Acid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uribilogen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valproic Acid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vancomycin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wbc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Fructosamine Calibrator | Fructosamine Controls | Haematology Calibrator | Haematology Controls | Hba1c Calibrator | Hba1c Controls | Hbaag Control Panel | Hcg Controls | Homocysteine Calibrator | Homocysteine Controls | Human Assayed Controls | Human Precision Controls | Immunoassay Controls | Lipid Calibrator | Lipid Controls | Lipoprotein (A) Calibrator & Control | Microalbumin Calibrator | Microalbumin Controls | Protein Calibrators | Protein Controls | RF Multipoint Calibrator | RF Controls | Tdm Controls | Thalassaemia Controls | Tumour Marker Controls | Urine Assayed Controls | Urine Precision Controls | Urine Strip Controls | |
|-------------------------|-----------------------|------------------------|----------------------|------------------|----------------|---------------------|--------------|-------------------------|-----------------------|------------------------|--------------------------|----------------------|------------------|----------------|--------------------------------------|-------------------------|-----------------------|---------------------|------------------|--------------------------|-------------|--------------|-----------------------|------------------------|------------------------|--------------------------|----------------------|-----------------------|
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | Pdw | |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Phenobarbital |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Phencyclidine |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Phenytoin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Phosphorous |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Platelets(Plt) |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Platelecrit (Pct) |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | ✓ | ✓ | Potassium |
| | | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | Prealbumin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Prolactin |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | ✓ | ✓ | Protein(Total) |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Prothrombin Time (Pt) |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Psa |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Psa Free |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Red Blood Cells (Rbc) |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Rdw |
| | | | | | | | | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | | | | | Rheumatoid Factor |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | ✓ | ✓ | Sodium |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | Specific Gravity |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | T3 Total |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | T3 Free |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | T-Uptake |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | T4 Total |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | T4 Free |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Testosterone |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Thc |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Theophylline |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Thrombin Time (Tt) |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Tobramycin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tofacitinib |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Transferrin |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tricyclics |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Triglycerides |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Troponin I |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Troponin T |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tsh |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | ✓ | ✓ | Urea |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | ✓ | ✓ | Uric Acid |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | Urbilinogen |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Valproic Acid |
| | | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | | Vancomycin |
| | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | ✓ | | Vma |
| | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | Wbc |
| | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | Zinc |

Terms & Conditions

1. General

All quotations made, all orders accepted, all goods sold, all service and advice rendered are subject to these conditions and to the exclusion of any previous Conditions of Purchase. Any variations to these must be expressly accepted by us in writing.

2. Specifications

We reserve the right to supply goods to the specification and/or design current at the date of dispatch. We cannot accept a request for goods as previously supplied as binding.

3. Admin & Handling Charge

An admin & handling charge of £25.00 will be added to all orders.

4. International Bank Charges

For international orders a £15.00 international bank charge will be added to all BACS payments unless the customer agrees to pay these charges at their end.

5. PayPal/Credit Card Transactions

We accept PayPal for credit card and debit card payments. There is a 3.5% PayPal processing fee added to all customer orders who choose to pay via PayPal this will be detailed on your invoice. This is the same charge that Fortress incur to receive this method of payment.

6. Prices

Although we take great care to ensure price stability, we reserve the right to change prices without notice. Goods will be invoiced at the prices valid on the date of confirmation of the Buyer's order. All prices given are exclusive of VAT unless otherwise stated.

Fortress Diagnostics cannot accept responsibility for typographical errors in pricing within our catalogues, advertising literature or quotations.

Prices quoted are "Ex Works" (Incoterms 2010). Freight, insurance and all other respective costs e.g. Certificate of origin, legalised and notarised documents will be invoiced separately.

7. Delivery

Goods are shipped or dispatched at Buyer's risk. Our standard dispatch dates are 21 days after orders are confirmed and paid in full (unless you have credit terms).

Delivery times quoted are to be treated as an estimate only and Fortress Diagnostics shall not be liable for any failure to deliver within such times whether a time for delivery be quoted or not. We shall not be held responsible for delays caused by anything beyond our reasonable control. Any special delivery requirements must be notified to us in writing at the time of placing the order.

We shall have the right at our discretion to make a reasonable charge for special handling and/or delivery.

The Seller is entitled to make delivery in instalments unless such delivery would be unreasonable or unless otherwise agreed upon and confirmed by the Seller in writing. In the case that a fixed period for delivery is agreed upon and the Seller is in default with the supply, the Buyer shall grant the Seller a reasonable additional period of time, normally of 4 weeks.

8. Order Additions

Any additions will result in a new order being created in line with our standard delivery terms. Where possible we will attempt to dispatch your order additions with your original order but cannot guarantee this.

9. Damage/Loss/Shortage

No claim for breakages or missing goods can be recognised unless notified to Fortress Diagnostics and the carriers within 72 hours of receipt of the goods. If damage or shortages is immediately apparent on delivery please:

1. Notify the carrier when signing for receipt of the goods.
2. Advise Fortress Diagnostics customer services team as soon as possible.

In the case of non delivery of a complete consignment notification must be received by us within 10 days of invoice date.

10. Return of Goods

Notification of returns must be made within 1 week of receipt of goods. Goods which have been received damaged or in error must be held in the correct storage conditions.

Do not return the goods until you contact our customer services team for a returned goods authorisation number. Clearly mark the authorisation number on the package to ensure your goods can be speedily processed.

You will appreciate that we cannot accept responsibility for loss or damage to goods being returned to us unless we arranged collection. If the mistake was ours there is of course no charge to you. However, if the goods were incorrectly ordered an administration and re-stocking charge of 25% of the invoice value excluding VAT is chargeable. Temperature controlled products incorrectly ordered will not normally be accepted for return.

11. VAT

We are required to charge VAT on all UK orders at the current VAT rate.

For organisations that are VAT exempt each order must be accompanied by an exemption certificate unless special arrangements have been made in writing. Under circumstances where a VAT exemption certificate does not accompany an order we are obliged by law to charge VAT. If subsequently you reclaim a VAT credit it must be completed within 30 days of invoice date.

12. Payment Terms

Payments are to be made within the agreed payment terms set with our customers. We may at our discretion charge interest at the rate of 5% above the base lending rate of Barclays Bank plc on all overdue accounts to the date of actual payment. Payment in advance or financial guarantees may be requested from customers who do not have an account.

13. Quotations

Quotations are valid for 30 days.

14. Cancellation

Orders may not be cancelled without our prior written agreement and may be subject to a cancellation charge. Standing orders must be cancelled in writing at least 8 weeks prior to what becomes the last shipment date.

15. Liability

Fortress Diagnostics' liability for any loss or damage suffered by you and arising by way of defects in the goods or otherwise howsoever shall be limited to the invoice price of the goods in respect of or in relation to which loss or damage is claimed. Our liability under this clause shall be in lieu of any warranty or condition implied by law as to the quality or fitness for any particular purpose of the goods and save as provided.

16. Ownership

All goods remain the property of Fortress Diagnostics Limited until payment is received in full. The responsibility for insurance and care of goods, including 3rd party risks lies with the purchaser.

17. Health & Safety

All products sold by Fortress Diagnostics Limited, should be handled by qualified personnel, exercising care during handling, usage and disposal. For further information please contact Fortress Diagnostics Limited.

Control of Substances Hazardous to Health 2002 (COSHH)

All Fortress products are developed and designed for 'IN VITRO' use only.

COSHH safety data sheets are available for all products on request.



**Fortress
Diagnostics**



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Diagnostics**

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