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SECTION 23
URINE

Urine Controls

Urine controls are vital in diagnostics for ensuring the accuracy and reliability of tests that analyse urine samples, which are commonly used to evaluate kidney function, identify metabolic disorders, and screen for drugs or other substances. These controls include standardised samples with known concentrations of various analytes, such as glucose, protein, and specific gravity, which are utilised to validate the performance of assays like dipstick tests and urinalysis. By incorporating these controls, laboratories can monitor assay precision and identify inconsistencies, thereby reducing the risk of incorrect results that could lead to misdiagnosis or inappropriate treatment.

Moreover, urine controls are crucial for maintaining quality assurance in laboratory procedures, ensuring consistent and reproducible results across different assays and platforms. Reliable urine diagnostics are essential for guiding clinical decision-making, particularly in diagnosing conditions such as urinary tract infections, diabetes, and renal diseases. Regular use of these controls helps detect potential issues with reagents or equipment, ultimately promoting effective patient management and improving health outcomes. Overall, urine controls significantly contribute to healthcare quality by providing reliable diagnostic information that informs treatment strategies and enhances patient care.

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)	2 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

5HIAA	Creatinine	Microalbumin	Potassium
Amylase	Dopamine	Norepinephrine	Protein
Calcium	Epinephrine	Normetanephrine	Sodium
Chloride	Glucose	Osmolality	Urea
Copper	Magnesium	Oxalate	Uric Acid
Cortisol	Metanephrine	Inorganic Phosphorous	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 Urine and hCG Strips Only
- 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 & Level 2)	2 x 3 x 12 ml	BXC0663A	LS