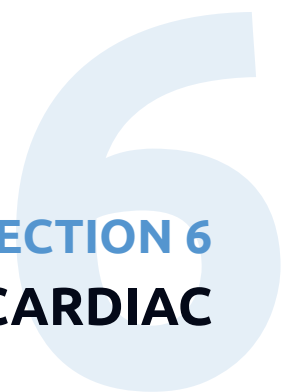


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**SECTION 6**  
**CARDIAC**



## Cardiac Controls

Cardiac controls are essential in diagnostics for ensuring the accuracy and reliability of tests that measure key cardiac biomarkers, such as troponin and B-type natriuretic peptide (BNP), which are critical for diagnosing heart attacks, heart failure, and other cardiovascular conditions. These controls, which contain known concentrations of these biomarkers, help validate the performance of diagnostic assays, ensuring that testing equipment and reagents are working properly. By using these controls, laboratories can identify potential issues early, minimising the risk of inaccurate test results that could lead to misdiagnosis or inappropriate treatment.

The role of cardiac controls is particularly crucial in emergency and critical care settings, where timely and precise biomarker measurements are vital for guiding immediate medical interventions. Reliable cardiac diagnostics help physicians make informed decisions about treatment strategies, such as initiating therapies for acute coronary syndromes or adjusting treatments for chronic heart conditions. Regular use of cardiac controls ensures consistency across tests, supporting better patient outcomes by enabling accurate diagnosis and monitoring of cardiovascular health.

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 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	Details	Size	Cat No.	Type	
Cardiac Control (Level 1)	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	5 x 2 ml	BXC0455A	Lyo.	
Cardiac Control (Level 1)	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	5 x 1 ml	BXC0455B	Lyo.	
Cardiac Control (Level 2)	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	5 x 2 ml	BXC0456A	Lyo.	
Cardiac Control (Level 2)	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	5 x 1 ml	BXC0456B	Lyo.	
Cardiac Control (Level 3)	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	5 x 2 ml	BXC0464A	Lyo.	
Cardiac Control (Level 3)	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	5 x 1 ml	BXC0464B	Lyo.	
Cardiac Control Set	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	3 x 1 x 2ml	BXC0450A	Lyo.	
Cardiac Control Set	CK Total, CKMB Activity, CKMB Mass, Tni,TnT, Digoxin, Homocysteine, Myoglobin	3 x 1 x 1ml	BXC0450B	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
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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 (Level 1)	1 x 2 ml	BXC0453A	Lyo.
CK/CK MB Control (Level 1)	5 x 2 ml	BXC0453B	Lyo.
CK/CK MB Control (Level 1)	10 x 2 ml	BXC0453C	Lyo.
CK/CK MB Control (Level 2)	1 x 2 ml	BXC0459A	Lyo.
CK/CK MB Control (Level 2)	5 x 2 ml	BXC0459B	Lyo.
CK/CK MB Control (Level 2)	10 x 2 ml	BXC0459C	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	5 x 1 x 1 ml	BXC0788A	Lyo.
D-Dimer Control Set (Level 1 & Level 2)	2 x 1 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 (2 Levels)	2 x 1 x 1 ml	BXC0691B	Lyo.
Homocysteine Control (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	5 x 1 x 0.5ml	BXC0486A	Lyo.
Myoglobin Control	1 x 0.5ml	BXC0487A	Lyo.

## NTProBNP Calibrators & Controls



- Lyophilised format stable to expiry at 2-8 °C.
- Prepared from human serum.
- Reconstituted stability of 8 hours at 2-8°C.

Description	Details	Size	Cat No.	Type
NTProBNP Calibrator Set (6 Levels)	Reconstituted Stability 8 hours at 2-8°C	6 x 1 x 1 ml	BXC0355A	Lyo.
NTProBNP Control Series (2 Levels)	Reconstituted Stability 8 hours at 2-8°C	2 x 1 x 1 ml	BXC0356A	Lyo.
BNP Calibrator Level 1	human Serum Base, Reconstituted Stability 8 hours at 2-8°C	1 x 0.5ml	BXC0455S	Lyo.
BNP Calibrator Level 2	human Serum Base, Reconstituted Stability 8 hours at 2-8°C	1 x 0.5ml	BXC0456S	Lyo.

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 1 week, at 2-8°C.

Description	Details	Size	Cat No.	Type
Troponin-T High Sensitivity Control	For use on all major systems	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	Details	Size	Cat No.	Type
Troponin-I Control Set	For use on all major systems	2 x 1 x 1 ml	BXC0470A	Lyo.
Troponin-I Calibrator Set	For use on all major systems	6 x 1 x 1 ml	BXC0473A	Lyo.