510(k) SUBSTANTIAL EQUIVALENCE DETERMINATION DECISION SUMMARY

A. 510(k) Number:

k072892

B. Purpose for Submission:

New devices: Triage® Total Controls 5 and Triage® Total Calibration Verification 5

C. Measurand:

Control and calibrator verification material for test systems containing CK-MB, Myoglobin, Troponin I, β-type natriuretic peptide (BNP), and D-Dimer

D. Type of Test:

Control materials

E. Applicant:

Biosite Incorporated

F. Proprietary and Established Names:

Triage® Total Controls 5

Triage® Total Calibration Verification 5

G. Regulatory Information:

1. Regulation section:

21 CFR§862.1660

2. Classification:

Class I, reserved

3. Product code:

JJY

4. Panel:

Clinical Chemistry (75)

H. Intended Use:

1. Intended use(s):

See indication for use

2. Indication(s) for use:

The Triage® Total Controls 5 are assayed materials to be used with the Triage® Profiler S.O.B.TM Panel, Triage® CardioProfilER® Panel, Triage® Cardiac Panel, Triage® BNP Test, Triage® D-Dimer Test and the Triage Meters to assist in monitoring test performance.

The Triage® Total Calibration Verification 5 are assayed materials to be used with the Triage® Profiler S.O.B.TM Panel, Triage CardioProfilER® Panel, Triage® Cardiac Panel, Triage® BNP Test, Triage® D-Dimer Test and the Triage Meters to verify the calibration of the Test Devices throughout the measurable range.

3. Special conditions for use statement(s):

Prescription Use

4. Special instrument requirements:

Triage MeterPlus® and Triage MeterPro®

I. Device Description:

The Triage® Total Control 5 Controls 1 and 2, and the Triage® Total Calibration Verification 5 Levels A, B, C, D, E are single-use 0.29 mL unit dose quality control materials prepared with concentrated purified CK-MB, myoglobin, troponin I, BNP and D-Dimer and human EDTA plasma at defined levels. The human plasma material has been tested for hepatitis B surface antigen, antibodies to hepatitis C, and antibodies against human immunodeficiency virus. The controls are stored frozen at < -20°C. Preservatives and stabilizers are added to maintain product integrity.

J. Substantial Equivalence Information:

1. Predicate device name(s):

Triage® Profiler S.O.B. (Shortness of Breath) Controls

Triage® Profiler S.O.B. Calibration Verification Controls

2. Predicate K number(s):

k040459

3. Comparison with predicate:

Similarities-Triage® Total Controls 5				
Item	Device	Predicate		
Intended use	The Triage Total Controls are assayed San			
	materials to be used with the Triage Profiler			
	S.O.B. Panel, Triage CardioProfilER Panel,			
	Triage Cardiac Panel, Triage BNP Test,			
	Triage D-Dimer Test and the Triage Meters to			
	assist in monitoring test performance.			
Form	Liquid	Same		
Analytes	CK-MB, myoglobin, Troponin I, BNP, D-Same			
	Dimer			
Storage (unopened)	≤ -20°C	Same		
Matrix	EDTA Human Plasma	Same		
Room Temp claim	30 minutes	Same		
Levels	2	Same		

Differences - Triage® Total Controls 5				
Item	Device	Predicate		
Packaging	0.29 mL polystyrene unit-dose vial	3.0 mL polypropylene vial		

Similarities - Triage® Total Calibration Verification 5				
Item	Device	Predicate		
Intended Use	The Triage Total Calibration Verification 5 materials are to be used with the Triage Profiler S.O.B. Panel, Triage CardioProfilER Panel, Triage Cardiac Panel, Triage BNP Test, Triage D-Dimer Test and Triage Meters to verify the calibration of the Test Devices throughout the measurable range.			
Form	Liquid	Same		
Analytes	CK-MB, myoglobin, Troponin I, BNP, D-Dimer	Same		
Storage (unopened)	≤ -20°C	Same		
Matrix	EDTA Human Plasma	Same		
Room Temp claim	30 minutes	Same		
Levels	5	Same		

Differences - Triage® Total Calibration Verification 5				
Item	Device	Predicate		
Packaging	0.29 mL polystyrene unit-dose vial	3.0 mL polypropylene vial		

K. Standard/Guidance Document Referenced (if applicable):

No standard/guidance documents were referenced.

L. Test Principle:

Not applicable

M. Performance Characteristics (if/when applicable):

- 1. Analytical performance:
 - a. Precision/Reproducibility:

Not applicable

b. Linearity/assay reportable range:

Not applicable

c. Traceability, Stability, Expected values (controls, calibrators, or methods):

Traceability

The materials are traceable to in-house purified, and analyzed antigens.

<u>Stability</u>

Closed vial stability was performed at \leq -20°C. The devices are single use products. Recovery at all time points tested was within sponsor's acceptance criteria of 80-120%.

Expected values

Values assigned to the controls are obtained from multiple runs of Triage® Total Calibration Verification 5 and Triage® Total Controls 5 on multiple device lots over several days.

d. Detection limit:

Not applicable

e. Analytical specificity:

Not applicable

f. Assay cut-off:

Not applicable

2. Comparison studies:

a. Method comparison with predicate device:

Not applicable

b. Matrix comparison:

Not applicable

3. Clinical studies:

a. Clinical Sensitivity:

Not applicable

b. Clinical specificity:

Not applicable

c. Other clinical supportive data (when a. and b. are not applicable):

4. Clinical cut-off:

Not applicable

5. Expected values/Reference range:

Not applicable

N. Proposed Labeling:

The labeling is sufficient and it satisfies the requirements of 21 CFR Part 809.10.

O. Conclusion:

The submitted information in this premarket notification is complete and supports a substantial equivalence decision.