



myocardial infarction.

4. As with all diagnostic tests, all results must be interpreted together with other clinical information available to the physician.

5. Some specimens containing unusually high titers of heterophile antibodies or rheumatoid factor (RF) may affect expected results. Even if the test results are positive, further clinical evaluation should be considered with other clinical information available to the physician.

6. High levels of Biotin (Such as supplements marketed for hair, skin, and nail growth) may interfere with the test result. Please consider Biotin interference as a possible error when a test result doesn't match the clinical presentation.

7. There is a slight possibility that some whole blood specimens with very high viscosity or which have been stored for more than 1 day may not run properly on the test cassette. Repeat the test with a serum or plasma specimen from the same patient using a new test cassette.

#### EXPECT VALUE

The Cardiac Troponin I (cTnI) Rapid Test has been compared with a leading commercial cTnI ELISA test, demonstrating an overall accuracy of 99.1%.

#### PERFORMANCE CHARACTERISTICS

Sensitivity and Specificity

The Cardiac Troponin I (cTnI) Rapid Test has been evaluated with a leading commercial cTnI ELISA test using clinical specimens. The results show that the sensitivity of the Cardiac Troponin I (cTnI) Rapid Test is 99.4% and the specificity is 99.0% relative to the leading ELISA test.

Method		ELISA		Total Results
	Results	Positive	Negative	
Cardiac Troponin I (cTnI) Rapid Test	Positive	172	5	177
	Negative	1	472	473
	<b>Total Results</b>	<b>173</b>	<b>477</b>	<b>650</b>

Relative sensitivity:  $172/173=99.4\%$  (95%CI\*: 96.8%~99.9%);

Relative specificity:  $472/477=99.0\%$  (95%CI\*: 97.6%~99.7%);

Accuracy:  $(172+472)/(172+1+5+472)=99.1\%$  (95%CI\*: 98.0%~99.7%).

\*Confidence Intervals

#### Precision

##### Intra-Assay

Within-run precision has been determined by using 15 replicates of five specimens: a negative, cTnI 1.0ng/mL positive, cTnI 5.0ng/mL positive, cTnI 10ng/mL positive and cTnI 40ng/mL positive. The negative, cTnI 1.0ng/mL positive, cTnI 5.0ng/mL positive, cTnI 10ng/mL positive and cTnI 40ng/mL positive values were correctly identified >99% of the time.

##### Inter-Assay

Between-run precision has been determined by 15 independent assays on the same five specimens: a negative, cTnI 1.0ng/mL positive, cTnI 5.0ng/mL positive, cTnI 10ng/mL positive and cTnI 40ng/mL positive specimens. Three different lots of the Cardiac Troponin I (cTnI) Rapid Test have been tested over a 3-day period using negative, cTnI 1.0ng/mL positive, cTnI 5.0ng/mL positive, cTnI 10ng/mL positive and cTnI 40ng/mL positive specimens. The specimens were correctly identified >99% of the time.

#### Cross-reactivity

The Cardiac Troponin I (cTnI) Rapid Test has been tested by 10,000ng/mL Skeletal Troponin I, 2,000ng/mL Troponin T, 20,000ng/mL Cardiac Myosin, HBsAg, HBsAb, HBeAg, HBeAb, HBcAb, syphilis, anti-HIV, anti-H.pylori, MONO, anti-CMV, anti-Rubella and anti-Toxoplasmosis positive specimens. The results showed no crossreactivity.

#### Interfering Substances

The following potentially interfering substances were added to cTnI negative and positive specimens.

Acetaminophen: 20 mg/dL	Caffeine: 20 mg/dL
Acetylsalicylic Acid: 20 mg/dL	Gentisic Acid: 20 mg/dL
Ascorbic Acid: 20mg/dL	Albumin: 10,500mg/dL
Creatin: 200 mg/dL	Hemoglobin 1,000 mg/dL
Bilirubin: 1,000mg/dL	Oxalic Acid: 600mg/dL

Cholesterol: 800mg/dL      Triglycerides: 1,600mg/dL

None of the substances at the concentration tested interfered in the assay.

#### INDEX OF SYMBOLS

Symbol	Used For	Symbol	Used For
	Use-by date		Consult instructions for use
	Batch code		In vitro diagnostic medical device
	Temperature limit		Manufacturer
	Please don't reuse it		Keep away from sunlight
	Don't use the product when the package is damaged		Keep dry
	Date of manufacture		Tests per kit
	CE Mark		Biological Risks
	Authorized representative in the European Community		

#### BASIC INFORMATION



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