



INSTRUCTIONS FOR USE ONE STEP TEST

oglobin/CK-MB/Troponin I Cardiac Markers etection in Whole Blood / Serum / Plasma

Product Code: TMT01
Myoglobin/CK-MB/Troponin I Combo Test De

BACKROUND INFORMATION

(globin (MYO), Creatine Kinase MB (CK-MB) and cardiac Troponin 1 (cTnl) are proteins released into the bloodstream after cardiac injury. Myoglobin is a seprotein normally found in skeletal and cardiac muscle with a molecular weight of 17.8 kDa. It constitutes about 2 percent of total muscle protein and is experted in ormally found in skeletal and cardiac muscle with a molecular weight of 17.8 kDa. It constitutes about 2 percent of total muscle protein and is consible for transporting oxygen within muscle cells. When muscle cells are damaged, Myoglobin is released into the blood rapidly due to its relatively small size. level of Myoglobin increases measurably above baseline within 2-4 hours post-infarct, peaking 19-12 hours, and returning to baseline within 24-36 hours. Ck is an enzyme also present in the cardiac muscle, with a molecular is an enzyme also present in the cardiac muscle, with a molecular weight of 87.0 kDa. Creatine Kinase is a dimeric most within 3-4 hours after the onset of ploms. It peaks within 9 to 30 hours, and returns to baseline levels within 48 to 72 hours. Cardiac Troponin I is a protein found in cardiac muscle, with a molecular in 27 hours. Cardiac muscle within 3-4 hours after the onset of ploms. It peaks within 9 to 30 hours, and returns to baseline levels within 48 to 72 hours. Cardiac Troponin I cardiac muscle, with a molecular bit of 2.2 kDa. Troponin I is part of a three submit complex comprised of Troponin T and Troponin I cardiac muscle, with a structural complex forms the component that regulates the calcium sensitive ATPase activity of actionyosis in stricted skeletal and cardiac muscle. After cardiac injury course, Troponin I cardiac feet for a full cardiac muscle and the structure of the first of the structure of the first of the structure of the structure of the first of the structure of the structure of the first of the structure of the first of the structure of the first of the structure of the structure

INTENDED USE

REAGENTS

s a rapid, qualitative, immunochromatographic assay for the detection of l scific capture antibodies are immobilized on each test area of the test. Whi and reacts with the specific antibody coated particles. This complex migrates roponin I present in the sample, it binds to specific capture antibodies in the

PRECAUTIONS AND LIMITATIONS

- fessional and in vitro diagnostic use only, use test lit beyond expiry date. The test device is single use. Do not reuse. It device should remain in its original sealed pouch until usage. Do not use the test if the seal is broke spossable gloves while performing the test. we dropper for each sample. Int samples should be handled as taking capable of transmitting disease into consideration. Of throughout all procedures and follow the standard procedures for proper disposal of samples. Illy high titers of heterophile antibodies or neumatoid factor (RF) may affect the results. Even if ter ered with other clinical information available to the physician.
- As with all diagnostic tests, it should be kept in mind that an iden after the evaluation of all clinical and laboratory findings. B. If the test result is negative and clinical symptoms persist, ad preclude the possibility of myocardial infarction.

STORAGE

Test device should be kept away from direct s Store at 4 - 30°C (39 - 86°F). Do not freeze. The test in the original packaging retains stat

SAMPLE COLLECTION AND PREPARATION

The test can be performed using whole blood, serum or plasma. To avoid hemolysis, serum or plasma should be separated from blood as soon as possible.

For Whole Blood Sampless; Test should be performed immediately with whole blood samples. Otherwise, whole blood samples should be stored at 2 - 8 °C anticoagulants (EDTA, heparin, citrate should be used) to avoid coagulation until they are being tested in a period of 2 days after collection.

For Serum Samples: Collect blood into a collection tube without anticoagulant, let the end of centrifuge period remaining supernatant is used as serum.

the end of centrifuge period remaining supernatant is used as serum.

For Plasma Samples: Collect blood into a collection to the with anticoagulants (EDTA, heparin, citrate should be used) to avoid coagule centrifuge the blood. At the end of centrifuge period supernatant is used as plasma.

Do not use turbid, hemolyzed samples. If the sample cannot be tested on the day of collection, store the serum, plasma samples in a freeze and thave the serum, plasma samples in an ereeze and thave the serum, plasma samples in an ereeze and thave the serum, plasma samples in a freeze and thave the serum, plasma samples in an expect whole blood sample. Bring the samples to room temperature be where you can be considered to the samples to room temperature be wherever possible, due to the blocking of the membrane by the debris.

Samples only) and instructions for use.

Kitt components: Test devices, droopers, dillenst for whole blood samples only) and instructions for use.

Additional materials recurred by one provided: Sample collection tube, centrifuge and timer, lancet (for only fingerstick whole blood) and collection tube, centrifuge and timer, lancet (for only fingerstick whole blood) and official materials recommended but not provided: Micropipettes to deliver mentioned amount of sample in the test procedure materials.

1. Take the test device out of fis pouch. Bring the tests and whole blood / serum/plasma samples to room temperatu.

2 For Whole Blood Samples: Draw whole blood into dropper and put 3 drops (90 µl) into the sample well and allowed to soak in.

For Serum / Plasma Samples: Draw serum / plasma into dropper and put 2 drops (60 µl) into the sample well as amples, Avoid the formation of any air bubbles.

3 Depending on the Myoglobin, CK-MB and Troponin | concentrations.

INTERPRETATION OF RESULTS











QUALITY CONTROL

PERFORMANCE EVALUATION

onin I Combo Test Device has been evaluated with a leading commercial Myoglobin/CKMB/Troponin I EIA test usi

iyoglobin/CK-MB/Troponin I Combo Test Device - EIA Miyoglobin/CK-MB/Troponin I Combo Test Device - EIA Miyoglobin/CK-MB/Tr

Myoglobi		resource	LAMMA	migrare		CK-MB Test	Wester	Positive	Integrane		Troponin I Test	7,69415	PUSITIVE	myerre	11111111
mysystem		Positive	70	- 8	78	Chan ini	Positive	60	1	61		Positive	318	6	324
		Negative	0	352	352		Negative	0	380	380		Negative	2	431	433
Total Results		70	360	430	Total Results		60	381	441	Total Results		220	437	757	
Sensitivity: 100%						Sensitivity	: 100%				Sensitivity	: 99.4%			

Specificity: 98% + Predictive V: 90 % - Predictive V: 100%

Specificity: 99,7% + Predictive V: 98,4 % - Predictive V: 100%

Specificity: 98,2% + Predictive V: 98,6 % - Predictive V: 99,5%

Cut off Myoglobin: 50 ng/mL

ine.
#**Assay
reen-un precision has been determined by 3 independent assays on the same fifteen specimens: 0 ng/mL, 50 ng/mL, 100 ng/mL, 200 ng/mL and 400 ng/mL of Myoglobin, 0 ng/mL,
grimL, 20 ng/mL, and 40 ng/mL of CK-MB and 0 ng/mL, 2 ng/mL, 5 ng/mL, 10 ng/mL and 20 ng/mL of Troponin 1. Myoglobin/CK-MB/Troponin 1 Combo Test Device have been test
es pecimens. The specimens were correctly identified >99% of the time. CROSS-REACTIVITY

INTERFERING SUBSTANCES

REFERANCES



TÜRKLAB TIBBİ MALZEMELER SAN. TİC. A .Ş. A.O.S.B 10040 Sok. No.20 Çiğil-İzmir / TURKEY TEL: +90 232 376 80 81 FAX: +90 232 376 80 40 info@turklab.com.tr www.turklab.com.tr





GESAN PRODUCTION s.r.l.
Via Einaudi, 19 91021 TRE FONTANE
Campobello di Mazara (TP) ITALY