



# INSTRUCTIONS FOR USE ONE STEP TEST

CK-MB (Creatine kinase MB)
Detection in Whole Blood / Serum / Plasm

Only for professional in vitro diagnostic

Product Code: TCM01 CK-MB (Creatine kinase MB) Test D detects CK-MB in human whole blood / serum / pla

## BACKROUND INFORMATION

Creatine Kinase MB (CK-MB) is an enzyme present in the cardiac muscle with a molecular weight of 87.0 kDa. Creatine Kinase is a dimeric molecule formed two subunits designated as 'M' and 'B' which combine to form three different isoenzymes, CK-MM, CKBB, and CK-MB. CK-MB is the isoenzyme of Creatine Kinase in most involved in the metabolism of cardiac muscle issue. The release of CK-MB into the blood following MI can be determing within 3-8 hours after the onso symptoms. It peaks within 9 to 30 hours, and returns to baseline levels within 48 to 72 hours. CK-MB is one of the most important cardiac markers and is we recognized as the radiational marker for the diagnosis of MI.

INTENDED USE

REAGENTS

## METHOD

id, qualitative, immunochromatographic assay for the detection of GK-MBi in IoUT Test area of the iest. While aproming the test, whole blood is examing IoUT and the properties of the propert

## PRECAUTIONS AND LIMITATIONS

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  1. For professional and in vitro diagnostic use only.

  2. Do not use test kit beyond expiry date. The test device is single use. Do not reuse.

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  2. Do not use test kit beyond expiry date. The test device is single use. Do not use the test if the seal is broken or the pouch is damaged.

  4. Wear disposable given swittle part of right less.

  5. Use a new dropper for each sample selection of the profession of the prof

## STORAGE

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

## SAMPLE COLLECTION AND PREPARATION

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

For Plasma Samples: Collect blood into a collection tube with not incoagulant, leave to settl the end of centrifuge period to the collection tube with anticoagulants (EDTA, heparic centrifuge the blood. At the end of centrifuge period supernatant is used as plasma.

Do not use furbid, hemolyzad samples, if the samples cannot be tested on the day of collectio freeze and thank the serum, plasma samples repeatedly. Do not freeze whole blood sample. Fur was the completely thanked and mixed well prior to testing. Turbid test samples should be whenever possible, due to the blooking of the membrane by the debts.

Kit components: Test devices, droppers, diluents (for whole blood s Additional materials required but not provided: Sample collecti bulbs and capillary tubes (for only fingerstick whole blood).

Additional materials.

## TEST PROCEDURE

- I. Take the test device out of its pouch. Bring the tests and whole blood / serum (plasma samples to room tempe. **For Whole Blood Sampless:** Town whole blood into dropper and put 2 drops (60 µl) into the sample well of it added 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

INTERPRETATION OF RESULTS

Negative: Only one colored line is visible in "C" area, indicating that CK-MB does not exist.

Positive: Two clored lines are visible in "C" and "T reas, indicating that CK-MB exists.

Low concentration of CK-MB may cause a faint line in "T" area. Even such a faint line in "T" area should be regarded as "positiv Invalid". Two colored line is visible in "T" area; test should be repeated using a new test device.







## QUALITY CONTROL

Tests have built in procedural quality control features. When the test is complete, the user will see a colored line in the "C" area of the test on negative samples and a colored line in the "T" and "C" area on positive samples. The appearance of the control "C" line is considered as an internal positional line indicates that sufficient volume of sample was added as well as valid test result. It is recommended that a negative control and a positive control be used to verify proper test performance as an external control. Users should follow appropriate federal, state and local guidelines concerning the external quality controls.

## PERFORMANCE EVALUATION

Method		EIA		Total Results
CK-MB Test Device	Results	Positive	Negative	Total Results
	Positive	69	1	70
	Negative	0	350	350
Total Results		69	351	420

100%

+ Predictive V: Cut off: 5 ng/mL 98,6% - Predictive V:

## Intra-Assay Within-run pred 40 ng/mL. The cision has been determined by using replicates of 15 tests for each of three lots using CK-MB specimen levels at 0 ng/mL, 5 ng/mL specimens were correctly identified >99% of the time.

Inter-Assay
Between-run precision has been determined by 3 independent assays on the same five specimens: 0 ng/mL, 5 ng/mL, 10 ng/mL, 20 ng/mL and 40 ng/mL of CK-MB
Three different lots of the One Step CK-MB Test Device (Whole Blood/Serum/Plasma) have been tested using these specimens. The specimens were correctly identified

CROSS REACTIVITY of CK-MB have been tested with 1,390 ng/mL CK-MM and 1,000 ng/mL CK-BB. No crosole Blood/Serum/Plasma) has a high degree of specificity for CK-MB.

INTERFERING SUBSTANCES
The One Step CK-MB Test Device (Whole

ested and no interference was observed in specimens containing 110 mg/mL human albumin, nL triglycerides. The following compounds have also been tested using the One Step CK-MB

affeine aptopril REFERANCES tine kinase-MB: detection of myocardial infarction and monitoring reperfusion. moreyme assays in the diagnosis of acute myocardial infarction. Ann Intern M U, et al. Early diagnosis of acute myocardial infarction; a comparison between

st, 49:633-9, 1989. TÜRKLAB TIBBİ MALZEMELER SAN. TİC. A .Ş. A.O.S.B 10040 Sok. No:20 Çiğli-İzmir / TURKEY TEL: +90 232 376 80 81 FAX: +90 232 376 80 40 info@turklab.c GESAN PRODUCTION s.r.I.

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MBOLS USED

EC REP Authorized European









