

CK-MB FS*

Gilford Express 550

Order information

Cat. No. Kit size
10 165 021 R1 5 x 20 ml + R2 1 x 25 ml

Method

Optimized UV test according to the recommendations of the DGKC (German Society of Clinical Chemistry) and IFCC (International Federation of Clinical Chemistry) for CK-MB.

Reagent preparation and stability

The reagents are ready-to-use and stable up to the end of the indicated month of expiry, if contamination is avoided, stored at 2 – 8 °C and protected from light.

Specimen

Serum, heparinized or EDTA plasma. Avoid hemolysis!
Loss of activity: at 2 – 8 °C after 24 h \leq 10 %
at 15 - 25 °C after 1 h \leq 10 %.

Components and concentration in the test

R1 + R2		
Imidazole	pH 6.7	100 mmol/l
Creatine Phosphate		30 mmol/l
Glucose		20 mmol/l
N-Acetyl Cysteine		20 mmol/l
Magnesium Acetate		10 mmol/l
EDTA		2 mmol/l
ADP		2 mmol/l
NADP		2 mmol/l
AMP		5 mmol/l
Diadenosine Pentaphosphate		10 μ mol/l
Glucose-6-phosphate Dehydrogenase		\geq 1.5 KU/l
Hexokinase		\geq 2.5 KU/l
CK-M (human) inhibiting polyclonal antibodies (sheep) inhibiting capacity		\geq 2000 U/l

Notes

- Hemoglobin interferes.
- The reagents contain Sodium Azide (0.095 %) as preservative.
Do not swallow! Avoid contact with skin and mucous membranes.

Normal range (see reference 3)

The likelihood of a cardiac infarction is high under the following circumstances:

CK Women	37 °C > 167 U/l
CK Men	> 190 U/l

and

CK-MB	37 °C > 24 U/l
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and

A CK-MB activity between 6 and 25 % of the Total CK activity
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If a cardiac infarction is suspected but the above conditions are not fulfilled, a fresh infarction may have occurred. The determination should then be repeated with a fresh sample after 4 hours.

References

- Würzburg, U., et al., Klin. Wschr., 54, (1976), 357 – 360
- Würzburg, U., et al., J. Clin. Chem. Clin. Biochem., 15, (1977), 131
- Stein, W., Med. Welt., (1985), 572 - 577

Test Parameters

Test Name	CK MB
Test	CK MB
Test Bar Code	#012
Test Type	Kinetic
Curve Type	Enzyme linear
Units	U/l
No. of decimal places	0
Primary Wavelength	340 nm
Secondary Wavelength	380 nm
Read Time/ Interval	60
Sample Blank	no
Factor	*
Calibration Interval	999
Normalization Interval	
No. of Calibrators	1
No. of Replicates	1
Low Blank A Limit	0.000
High Blank A Limit	0.650
Low A limit	0.000
High A Limit	1.400
Low Normal	
High Normal	
Linearity Limit	1000
Curve S D Limit	20

Test Name	CK MB
Test	CK MB
Test Bar Code	#012
Sample Volume	10 μ l
Sample Diluent	
Predilution Ratio	
Reran Dilution Ratio	2
Predilution	1
Reagent Diluent	
Reagent 1: Volume	240 μ l
Diluent volume	: μ l
Bar Code	CKIH
Lag Time	240 secs
Reagent 2 : Volume	60 μ l
Diluent volume	
Bar Code	CK2H
Lag Time	120 sec

*Factor must be checked by a calibration serum

* fluid stable