

## CK-MB FS\*

### Order information

Cat. No.	Kit size						
10 165 021	R1 5 x	20 ml +	R2	1 x	25 ml		
10 165 022	R1 5 x	80 ml +	R2	1 x	100 ml		
10 165 023	R1 1 x	800 ml +	R2	1 x	200 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-NAC. The CK-MB consists of the subunits CK-M and CK-B. A specific antibody against CK-M inhibits the complete CK-MM activity (main part of the total CK activity) and the CK-M subunit of CK-MB. Only CK-B activity is measured, which is half of the CK-MB activity.

### 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 ≤ 10 %  
at 15 - 25 °C after 1 h ≤ 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 µmol/l	
Glucose-6-phosphate Dehydrogenase		≥ 1.5 KU/l	
Hexokinase		≥ 2.5 KU/l	
CK-M (human) inhibiting polyclonal antibodies (sheep) inhibiting capacity		≥ 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

## Gilford Express 550

### 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	*8250
Calibration Interval	999
Normalization Interval	
No. of Calibrators	1
No. of Replicates	2
Low Blank A Limit	0.000
High Blank A Limit	0.700
Low A limit	0.000
High A Limit	2.000
Low Normal	0
High Normal	24
Linearity Limit	1000
Curve S D Limit	20

Test Name	CK MB
Test	CK MB
Test Bar Code	#012
Sample Volume	12 µl
Sample Diluent	
Predilution Ratio	
Reran Dilution Ratio	2
Predilution	1
Reagent Diluent	
Reagent 1: Volume	300 µl
Diluent volume	:µl
Bar Code	CKIH
Lag Time	500 secs
Reagent 2 : Volume	0 µl
Diluent volume	
Bar Code	
Lag Time	0 sec

\*Factor must be checked by a calibration serum

\* fluid stable