

CK-MB FS*

CLINLINE 150

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
and	
A CK-MB activity between 6 and 25 % of the Total CK activity	

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

* fluid stable

Assay Parameters at 37°C

Test Name		CK-MB
Short Name		CK-MB
Units		U/L
Assay Type		Kinetic
Filter Value		340
1 st Read. = 0		-
Lag Phase 1		7
NB Mesur		10
Reag.1	Vol	200
	Dil	0
	Pos	1 to 28
Reag.2	Vol	50
	Dil	0
	Pos	1 to 28
Sample	Vol	10
	Dil	0
Activation		REAG 2
Lag Phase 2		4
Factor		310 **
Stand. Calcul		-
Blk = Stand.		-
Nb.of Stand		-
Stand. 1	Val	-
	Pos	-
Stand. 2	Val	-
	Pos	-
NB Rep St/Ct		2
Control	Val	Control Value
	Pos	76 to 89
	Dev	Standard deviation
Predil Rate		1
Postdil Rate		10
Diluent		Water
Rinse Type		3
Up Norm Val		24
Low NormVal		1
Linearity L		1000
Lower Blk L		0
Upper Blk L		3000
Blk Acti. L		5
ODT 1 – ODTO L		3000
Pred St/CT		-

** The factor must be checked by a calibration serum