

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	

BAYER / TECHNICON RA-SYSTEM

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.

For monoreagent mix 4 parts R1 + 1 part R2. This is stable for 2 weeks at 2 - 8°C or 24 hours at 15 - 25°C.

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

* fluid stable

CHEMISTRY SETTINGS

Temperature: 37°C

METHOD NO (FREE NO)	#		
CODE	#		
NAME	CKMB		
IMMUNOASSAY	0	IA TABLE	-
TYPE	0		
INV METHOD	0		
% SAMPLE VOL	28%		
FILTER POS	1(340)		
BIC CHEM	0	FILTER 2	-
BIC FACT 1	1.0	BIC FACT 2	-
BIC LIM 1	0	BIC LIM 2	-
DEP. LIM			
DELAY	5 : 00		
INCUBATION	-		
DEFAULT	0	BLANK	0
% REAG VOL	70%		
2ND REAG	0	2RGT VOL	
A1 DLY.	-	A2 DLY	
UNITS	U/l		
UNIT FAC	1.00	DECIMAL	0
RBL LOW LIM	0.1	RBL HIGH LIM	2.00
RANGE LOW	0	RANGE HIGH	1000
CAL FACTOR	**		
RGT RATE	0.00		
STD VAL	*		
NORMAL L	0	NORMAL H	24
SLOPE	1.00	INTERSEPT	0.00
LIN FACT	-	1.0 LIM	-
EP LIM	-		
C 1* 10E-6	0.00	C 2* 10E-6	99999.0
D 1* 10E-6	10.88	DELTA-Z	0.015

#) Data entry by the user

*) Enter calibration or standard value and position

***) The factor must be checked by a calibration serum.