

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

**ABBOTT
SPECTRUM**

Temperature: 30/37°C

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

TEST DEFINITION

ENTRY NAME		CKMB
REPORT NAME		CKMB
TEST N°		#
TEST TYPE		Calibrated
MATH		LIN REG RATE KIN BLK
REACTION DIRECTION		UP
REAGENTS		1
TEMPERATURE		30 or 37°C
SERUM BLANK		No
CALIBRATION	LEVEL (C)	N°
WATER	0.0000	1
CAL	*	-
SAMPLE µL	NORMAL	10
	LOW	20
	HIGH	5
UNITS	PRIM.	IU/l
	SEC.	IU/l
SEC UNITS FACTOR		
PRINT DIGITS		0
INST MULT		1 INT. 0
NORMAL		0 TO 24
CAL MODE		CAL ON CMD
CAL LEVEL		0
CAL INTERVAL		
REF CAL FACTOR		-
% TOL OF CAL FACTOR		10
% TOL OF CAL		10

REAGENTS DEFINITION

REAGENT NUMBER 1 FOR TEST		CKMB
REAGENT NAME		CKMB
LOT ID		#
REAGENT VOLUME (µl)		236
FIRST READ TIME (SEC)		240
LAST READ TIME (SEC)		600
NUMBER OF READS		3
READ INTERVAL (SEC)		60
PRIMARY/SECONDARY		E.F.
1 – 5	340 - 380	4.85
6.	340 - mA	0.00
LINEARITY (C)		0 TO 1000
INITIAL Ad		0.7
ABS LIMIT		2.0
REAGENT BLANK		NO
BEFORE WASH CYCLES		1
AFTER WASH CYCLES		1
MIX TIME		1
COOLING		YES

- #) Data entry by the user
*) Calculated by the analyzer

* fluid stable

15.04.08