

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
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

WAKO-20 R WAKO-30 R

INSTRUMENT SETTING

Temperature: 37°C

TEST: CKMB

PAGE 2:		
REACTION MODE:	1	Rate
REFERENCE TEST ID:	0	-
TEST WAVELENGTH:	1	340
BLANK WAVELENGTH:	2	380
MULTI-ASSAY TEST ID:	0	-
TEST READ TIMING 30 R (20R):	38(24)	- 48(30)
BLANK READ TIMING 30 R (20R):	0(0)	- 0(0)
SAMPLE VOLUME:		6µl
DILUTED SAMPLE VOLUME:		0µl
SAMPLE REPEAT #:		0
REAGENT D VOLUME:		0
REAGENT D POSITION:	0	0
REAGENT 1 VOLUME:		240µl
REAGENT 1 POSITION *:	1	50ml
REAGENT 2 VOLUME:		60µl
REAGENT 2 POSITION *:	2	50ml
STIRRER:	0	Off

PAGE 3:		
CALIBRATION MODE:	1	Factor
CALIBRATION INTERVAL:	0	-
FACTOR ***:		20300
SLOPE FACTOR:	100	0
BLANK #:	3	0
BLANK CUP NUMBER:		0
BLANK CONCENTRATION:	0	-
STANDARD CUP NUMBER #:		
STANDARD CONCENTRATION *:	0	0

PAGE 4:		
SAMPLE RANGE:		0
REACTION MODE:	0	Up
MAX. RATE LIMIT:	0	0
<u>CALIBRATOR'S ABSORBANCE WINDOW</u>		
SAMPLE	LOW: 0	HIGH: 2500
BLANK	LOW: 50	HIGH: 500
SLOPE	0 - 0	0
RATIOS		
REACTION MODE:	1	Rate
TEST READ TIMING 30 R (20R):	42(26)	- 46(28)
REF. READ TIMING 30 R (20R):	38(24)	- 42(26)
CHECK VALUES:	0.8	- 1.2

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