

CK-MB DS*

Supplementary reagent for quantitative in vitro determination of CK-MB in serum or plasma on photometric systems

Order Information

Cat. No.	Kit size
1 1690 99 10 065	3 x 3 mL

Method

Supplementary reagent for the determination of CK-MB with the DiaSys CK-MB FS reagent. Addition of CK-MB DS improves the sensitivity and precision of the CK-MB enzyme activity determination by duplication of the signal.

Principle

Creatine phosphate + ADP $\xrightarrow{\text{CK}}$ Creatine + ATP

Glucose + ATP $\xrightarrow{\text{HK}}$ Glucose-6-phosphate + ADP

Glucose-6-phosphate + NADP⁺ $\xrightarrow{\text{G6P-DH}}$
6-Phospho-glucono lactone + NADPH + H⁺

Reaction with supplement:

6-Phospho-glucono lactone $\xrightarrow{\text{PGL}}$ 6-Phospho-gluconate

6-Phospho-gluconate + NADP⁺ $\xrightarrow{\text{6-PGDH}}$
Ribulose-5-phosphate + CO₂ + NADPH⁺

Reagent

Components and Concentrations

Imidazole buffer	pH 6.7	125 mmol/L
6-phosphogluconate dehydrogenase (6-PGDH)		> 600 U/L
6-phosphogluconolactonase (PGL)		> 2000 U/L

Storage Instructions and Reagent Stability

The reagent is stable up to the end of the indicated month of expiry, if stored at 2 – 8 °C and contamination is avoided. Do not freeze the reagent!

Warnings and Precautions

1. The reagent contains sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
2. Please refer to the safety data sheets and take the necessary precautions for the use of laboratory reagents.
3. For professional use only!

Waste Management

Please refer to local legal requirements.

Reagent Preparation

The reagent is ready-to-use for mixing with R1 of DiaSys CK-MB FS.

Mix 20 parts of R1 of CK-MB FS with 1 part of CK-MB DS e.g.: 20 mL R1 + 1 mL CK-MB DS.

Stability of mixture:

6 days	at	2 – 8 °C
24 hours	at	15 – 25 °C

Treat the mixture like R1 of the reagent CK-MB FS. For further instructions please refer to the package insert of CK-MB FS.

Literature

Vormbrock R. Helger R. Enzyme 38 (1987) supplement S1, p. 20 6th International Congress on Clinical Enzymology, Hannover 1987.

Manufacturer



DiaSys Diagnostic Systems GmbH
Alte Straße 9 65558 Holzheim Germany