

CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: VTI850 **Lot #:** K2601

Description: CK-MM Type I, Recombinant
Creatine Kinase MM (CK-MM) Type I Isoenzyme

Recombinant full length Creatine Kinase MM isoenzyme without the C-terminal lysine on both subunits. CK-MM is a 47 kDa dimeric protein comprised of 2 identical subunits of Type I sequence. Purified in the enzymatically active form. Reacts with polyclonal antibodies specific to MM isoenzyme in ELISA. Major band reactive with anti-CK-MM rabbit polyclonal antiserum migrating above the 37 kDa standard. Minor bands seen below 37 kDa at high protein concentrations.

Source: *Pichia pastoris*

Format: Purified, Liquid

Purification: Purity verified by SDS-PAGE. Purity compares with reference lot. Purified under non-denaturing conditions.

Concentration: 7.5 mg/mL (Coomassie® Plus)
Activity: 537 IU/mg total protein (Sigma CPK Procedure No. 45).
One unit will transfer one micromole of phosphate from creatine phosphate to ADP per minute at 37°C.
Measured at 340nm as one equimolar amount of NADH produced by coupled reaction.

Buffer: 0.01 M Tris-HCl, 0.075 M Sodium Chloride, 10 mM beta-Mercaptoethanol, 50% Glycerol, pH 7.2.

Preservative: 0.1% Sodium Azide

Applications: Suitable for use in Western Blot (major band migrating above 37 kDa) and ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: Store at -70°C or below. Aliquot to avoid multiple freeze/thaw cycles.

Inactivation: Not Applicable

Safety Note(s): Refer to the appropriate Safety Data Sheet (SDS) for additional information.

Quality Signature:



18 March 2022

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY