

Certificate of Analysis

Reason for Submission	n: Release Corrected Amendment			
LOT NUMBER:				
PRODUCT NAME:	Recombinant Creatine Kinase MB Isoenzyme Type II			
DESCRIPTION:	Recombinant full length Creatine Kinase MB Isoenzyme with amino acid sequence identical to native enzyme produced in <i>Pichia pastoris</i> . Purified in the enzymatically active form. Reacts with monoclonal antibodies specific to MB Isoenzyme in ELISA.			
STORAGE:	Supplied frozen and should be stored at -70°C or below. Aliquots should be dispensed to avoid multiple freeze thaws.			
PACKAGING:	Supplied in cryovials or other suitable container. Vials are filled to contain the exact amount of protein stated on the label. Losses will occur when aliquoting.			
DATE OF MFG:				
EXPIRY DATE:	Greater than one year form date of receipt			
I. BULK PRODUCT ANALYSIS				

I.	BULK PRODUCT ANALYSIS			
	Attribute	Specification	Result	
1.	Physical Characteristics			
1.1	Appearance	Colorless clear to slightly hazy solution		
1.2	Formulation	50 v/v% Glycerol, 10 mM Tris-HCl, 0.5 mM DTT, 0.5 mM EDTA		
1.3	рН	6.8 ± 0.5		
QA-550 Rev. 2			Page 1 of 2 4/23/03	

4/23/03

	Attribute	Specification	Result
2	Identity / Purity		
2.1	Molecular Weight by SDS-PAGE	CKMB2 doublet band migrating about 47 kDa not resolved on most gels. Multiple impurity bands between 3 and 47 kDa visible with 2.5 ug loads not visible with 0.25 ug loads. 2 minor impurity bands at ~40-45 kDa visible with 0.25 ug loads. Comparable to reference lot.	
3	Potency		
3.1	Protein Concentration by Pierce BCA	$1-5 \text{ mg/ml} \pm 20\%$	
3.2	Enzymatic Activity Sigma Diagnositics Creatine phospho- kinase (CPK) procedure No. 45-UV 1 IU = 1 micromole creatine phosphate formed per minute	Greater than or equal to 500 IU/mg @ 37°C	
Comm	ents: All tests reported	as pass	
	Production Manager or Se	Date	

NOT A FINISHED PRODUCT INTENDED FOR FURTHER MANUFACTURING PROCESSING ONLY

BIOHAZARD INFORMATION
No physical or health hazards under OSHA definitions (NOT HAZARDOUS)

QA-550 Rev. 2 Page 2 of 2 4/23/03