



CERTIFICATE OF ANALYSIS

PRODUCT: ProteomeStore™ Heart, Cytosolic Proteins, Undenatured, Rat, Sprague Dawley

PRODUCT NUMBER: C-1604

LOT NUMBER: B1124

PRODUCT DESCRIPTION: The ProteomeStore™ Heart Cytosolic Proteins preparation is a lyophilized formulation of soluble whole rat heart protein in a stabilizing buffer containing protease and phosphatase inhibitors. The extract was prepared using a Teflon® pestal homogenizer (Potter-Elvehjem), clarified by centrifugation at 40,000 g for 20 minutes and supernatants immediately frozen for lyophilization. Suitable for both SDS-PAGE and applications requiring non-denatured proteins. Heart tissue used in this preparation was obtained from Sprague-Dawley rats, 7-8 weeks old.

APPLICATIONS: This preparation is ideal for proteomic studies which require preservation of naturally occurring protein phosphorylation states. The ProteomeStore™ Heart cytosolic proteins provides a convenient, stabilized, off-the-shelf proteome reagent which may be used in such applications as profiling studies to discover variations in relative protein abundances, immunocapture of native-state proteins of interest and identifying unique electrophoretic mobility patterns of proteins contained

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within the rat heart proteome. ProteomeStore™ preparations are available from Sprague Dawley rat brain, heart, kidney, liver, lung and spleen; Swiss Webster mouse brain and liver.

QUALITY CONTROL:

Total Protein: Total protein concentration was determined using the Bradford method.

PASS-Physical Purity: This concentrate is evaluated by SDS-PAGE for conformity against standard preparations and gives typical SDS-PAGE profile.

PASS-Activity: Each ProteomeStore™ Heart Cytosolic Preparation is tested for tyrosine kinase activity.

PRODUCT FORMULATION:

Lyophilized from 5% sucrose in 10 mM HEPES buffer, pH 7.0; 150 mM NaCl; protease inhibitors: 1 mM EDTA, 1 mM EGTA, 1 mM PMSF, 1 mM AEBSF, 5 µg/ml leupeptin, 1 mM benzamidine; phosphatase inhibitors: 50 µM orthovanadate, 100 µM sodium fluoride, 2.5 mM sodium pyrophosphate; 1 mM 2-mercaptoethanol (added midway through homogenization step). Protein concentration is 5 mg per mL.

RECONSTITUTION:

Reconstitute in 500 µL H₂O. Aliquot and freeze unused material at -20°C for future use.

STORAGE & HANDLING:

Store at -20°C.

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT

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