Certificate of Analysis

Product Name: Membrane Protein Lysate - Human Adult Normal Tissue: Adrenal
Catalog No.: P3234004   **Lot No.: B908046**
Species: ■ Human ☐ Mouse   ☐ Rat   ☐ Monkey (Rh) ☐ Guinea Pig ☐ Porcine
         ☐ Bovine ☐ Hamster ☐ Dog ☐ Monkey (Cy) ☐ Rabbit   ☐ Plant
Tissue Type: ■ Normal ■ Adult ☐ Fetal   ☐ Tumor   ☐ Disease   ☐ Cell Line
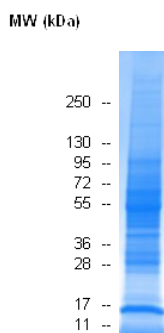**Donor Information:**
    Male: _____57_____ year(s) old   Pool of ____1___ donor(s)
    Female: _____ year(s) old   Pool of _____ donor(s)
Clinical Diagnosis: Normal

Packaging: 0.1 mg per vial; **Concentration:** 2 mg/ml.
Quality Control: Protein lysate is verified on SDS-PAGE comparing to standard protein lysate.

Protein lysate can be validated by Western Blot using specific biomarker: GAPDH for total protein, cytoplasmic and universal total protein; Histone for nuclear protein; Na/K ATPase for membrane protein; Vimentin for cytoskeleton protein.
Uses: Western Blot (10 µg to 20 µg per lane is recommended for a mini gel), Immunoprecipitation, Electrophoresis, Enzymatic activity analysis, protein-protein interaction, gel shift assay, tissue specific expression, and mass spec. analysis.
Buffer:

Location	Buffer Components*
Total protein	HEPES (pH7.9), KCl, Sucrose, Sodium deoxycholate, and NP-40
Membrane protein	The same as above.
Nuclear protein	HEPES (pH7.9), NaCl
Cytoplasmic protein	HEPES (pH7.9), KCl, and Sucrose.
Cytoskeleton protein	PIPES (pH 6.8), NaCl, SDS, and Sucrose

 Note: *Each buffer contains, MagCl$_2$, EDTA, Glycerol, and a cocktail of protease inhibitors

Storage: Store at 2-8ºC for continuous use within a day. For extended storage, freeze working aliquots at -70ºC. Repeated freezing and thawing is not recommended. Under proper storage conditions the shelf life is six months from the date of receipt.
Shipping: Dry Ice
User's Note: Products are intended for laboratory research purposes only and should be used by qualified personnel only.

APPROVED BY: _____