

Certificate of Analysis

Product Name:

- Total Protein
- Nuclear Protein
- Membrane Protein
- Cytoplasmic Protein
- Cytoskeleton Protein
- Universal Protein Lysate
- Human Tumor Total Protein Matched Pair (PP/PM)

Catalog No.: P1xxxxxx
Catalog No.: P2xxxxxx
Catalog No.: P3xxxxxx
Catalog No.: P4xxxxxx
Catalog No.: P5xxxxxx
Catalog No.: Pxxxxxxx
Catalog No.: P8235xxx-PP/PM

Shipping Condition: Dry Ice**Storage Condition:** Store the protein lysate at -70°C for long term storage. After the protein is thawed, store it at 2 - 8°C for continuous use. Avoid freeze and thaw cycles!**Shelf Life:** Half a year from the date of receipt under proper storage condition**Description**

All the protein lysates were prepared from liquid nitrogen fresh frozen tissues. Total protein and universal protein lysates were prepared by Biochain's Total Protein Extraction Kit (**Cat# K3011010**). Other protein lysates were prepared by Biochain's CNMCS Compartmental Protein Isolation Kit (**Cat# K3013010**)

- **The total protein • Membrane protein** is provided in a buffer including HEPES (pH7.9), MgCl₂, KCl, EDTA, Sucrose, Glycerol, Sodium deoxycholate, NP-40, and a cocktail of protease inhibitors
- **The nuclear protein** is provided in a buffer including HEPES (pH7.9), glycerol, NaCl, MgCl₂, EDTA, and a cocktail of protease inhibitors
- **The cytoplasmic protein** is provided in a buffer including HEPES (pH 7.9), MgCl₂, KCl, EDTA, Sucrose, glycerol, and a cocktail of protease inhibitors
- **The cytoskeleton protein** is provided in a buffer including HEPES (pH 7.9), MgCl₂, KCl, EDTA, Detergents, Sucrose, glycerol, and a cocktail of protease inhibitors
- **Human Universal Protein Lysate** is prepared from major organs of both male and female adult donors
- **Dog Universal Protein Lysate** is prepared from major organs of both male and female adult donors
- **Monkey (Cynomolgus and Rhesus) Universal Protein Lysate** is prepared from major organs of both male and female adult donors
- **Mouse Universal Protein Lysate** is prepared from several male and female Balb/C mice whole bodies without fur
- **Rat Universal Protein Lysate** is prepared from several male and female Sprague Dawley or Wistar rat whole bodies without fur
- **Human tumor protein matched products** include: Primary Pair (PP), or Primary and Metastatic Pair (PM). PP consists of total protein isolated from primary tumor and its adjacent normal tissue; PM consists of total protein from primary tumor and corresponding metastatic tumor. Total proteins in each pair are prepared from the same donor. This product line is designed for identifying tumor-specific genes and tumor metastatic genes

Quality Control

1. The isolated protein pattern on SDS-PAGE gel is visualized by Coomassie blue staining, the pattern is consistent with each lot.
2. The isolated protein is analyzed by Western Blot using an antibody to • GAPDH for total protein, cytoplasmic and universal total protein • Histone for nuclear protein • Na/K ATPase for membrane protein • Vimentin for cytoskeleton protein. The expression level is consistent with each lot.

FOR IN VITRO RESEARCH USE ONLY**APPROVED BY** _____