

# Certificate of Analysis

**Product Name:** CNMCS/CNM compartmental Protein Extraction Kit

**Catalog No.:** K3013010/K3012010

**Lot No.** \_\_\_\_\_

**Shipping Condition:** on dry ice.

**Storage Condition:** Buffer C, W, N, M, CS at 2-8 °C and 50 x PI solution at -20 °C

**Shelf Life:** 1 year from the date of receipt under proper storage conditions

## Description

Components in this kit are prepared with pure chemicals according to the proprietary technology. To prevent protein degradation, a ready-to-use protease inhibitor cocktail is provided. One Kit is consisted of five reagents enough to enrich four compartment proteins from 5 grams tissues or about 125 million cells. The efficiency of subcellular fractionation has been investigated by SDS-PAGE and immunoblotting of selected marker proteins. Comparing with CNMCS kit, CNM kit has everything except CS buffer for cytoskeleton protein extraction.

## Quality Control

One kit of this lot has been tested to go through the complete compartmental protein extraction procedure from rat colon. Four compartmental proteins from the extraction are used for electrophoresis, transferring to PVDF membrane and immunoblotting with mouse anti-GAPDH, anti-Histone H1, anti-Vimentin, and Na/K<sup>+</sup> ATPase as primary antibodies, and HRP-conjugated anti-Mouse IgG as secondary antibody. The separation of four compartment proteins is confirmed by the enrichment of GAPDH in the cytoplasmic fraction, Histone H1 in the nuclear fraction, Na/K<sup>+</sup> ATPase in the membrane fraction, and the unique localization of Vimentin in the cytoskeleton fraction.

## Components

1. 1 CNMCS(or CNM) compartmental Protein Extraction Kit (for 5 g tissue)
2. Certificate of Analysis
3. One User Manual
4. SDS

**FOR IN VITRO RESEARCH USE ONLY**

**APPROVED BY** \_\_\_\_\_

