

**Pel-Freez®****Certificate of Analysis****PRODUCT:** Rabbit Brain Cephalin**CODE NO:** 41052**LOT NO:** 18935**STORAGE:** At or below -10°C

**PROCEDURE:** Cholesterol free Rabbit Brain Acetone Powder is extracted with chloroform, filtered through cheesecloth, and allowed to dry. The remaining residue is re-suspended in 0.85% saline solution, aliquoted, and frozen at or below -10°C.

The product was derived from animals which received ante and post mortem inspection at U.S.D.A. Plant #P202, and found to be free of infectious and contagious diseases.

**ASSAYS:** Phospholipids (PL) are shown in original concentration (mg/mL) and in normalized weight (wt%) percent by <sup>31</sup>P-NMR.

| <u>PL</u>       | <u>ppm</u> | <u>mM</u> | <u>MW</u> | <u>mg/mL</u> | <u>wt%PL</u> |
|-----------------|------------|-----------|-----------|--------------|--------------|
| PO <sub>4</sub> | 1.50       | 0.2132    | 98        | 0.04         | 1.52         |
| PE              | -0.29      | 0.9002    | 768.61    | 1.38         | 50.45        |
| PS              | -0.54      | 0.3153    | 824.966   | 0.52         | 18.96        |
| PI              | -0.75      | 0.0844    | 974.764   | 0.16         | 6.00         |
| PC              | -0.84      | 0.4104    | 770.935   | 0.63         | 23.07        |
|                 |            |           | Total     | 2.74         | 100.00       |

PO<sub>4</sub>: Phosphate; PE: Phosphatidylethanolamine; PS: Phosphatidylserine;  
PI: Phosphatidylinositol; PC: Phosphatidylcholine

Total concentration of phospholipids (PE, PS, PI, PC) based on <sup>31</sup>P-NMR  
analysis: 1.9235 mM

**QUALITY ASSURANCE****Quality Control Release Date:** July 10, 2013**Chris Lyle, Quality Systems Supervisor****SUITABLE FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES**