Brain PI(4,5)P2
L-α-phosphatidylinositol-4,5-bisphosphate (Brain, Porcine) (ammonium salt)
840046P-10mg

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>1096.385 (average based on fatty acid distribution in product)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Powder</td>
</tr>
<tr>
<td>Storage</td>
<td>-20°C</td>
</tr>
<tr>
<td>Expiration Date</td>
<td>Three months from date of receipt</td>
</tr>
<tr>
<td>M Lot Number</td>
<td>5507PIB072</td>
</tr>
<tr>
<td>Avanti Lot Number</td>
<td>840046P-10MG-B-072</td>
</tr>
</tbody>
</table>

**ANALYSIS** | **SPECIFICATION** | **RESULTS**
---|---|---
Physical Examination | Powder: White solid which contains no foreign matter. | Pass |
TLC (45:35:7.7:2.3 Chloroform: Methanol: Water: Ammonium Hydroxide) | >99% Purity  
Ninhydrin: negative  
Iodine: one major spot  
Phosphorus: positive  
Charring: positive  
Water dip: one major spot | All Pass |
UV Oxidation | NMT 5% total all wavelengths | 2% total |
Proton NMR | NMR spectrum consistent with structure | Consistent with structure |
Phosphorus NMR | NMR spectrum consistent with structure | Consistent with structure |
Calcium (ICP/MS) | NMT 500ppm | None Detected |
Mass Spectroscopy | [M-3NH₄+2H]⁺ = 1045.385 ± 1 amu  
[M-3NH₄+H]²⁺ = 522.193 ± 1 amu (predominant species) | [M-3NH₄+2H]⁺ = 1046.1 amu  
[M-3NH₄+H]²⁺ = 522.6 amu (predominant species) |

Approved By:

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