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**Certificate of Analysis**

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Product Name: PMPA (NMDA antagonist)  
Cat. No.: GC14357  
Batch No.: 1  
Chemical Name: (R)-4-(phosphonomethyl)piperazine-2-carboxylic acid

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 113919-36-1  
Molecular Formula:  $C_6H_{13}N_2O_5P$   
Molecular Weight: 224.15  
Storage: Store at  $-20^{\circ}C$   
Chemical Structure:

**ANALYTICAL DATA**

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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