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## Certificate of Analysis

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Product Name: D-AP4  
Cat. No.: GC12063  
Batch No.: 1  
Chemical Name: (R)-2-amino-4-phosphonobutanoic acid

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 78739-01-2  
Molecular Formula:  $C_4H_{10}NO_5P$   
Molecular Weight: 183.1  
Storage: Store at RT  
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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