



*The Power to Question*

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-200432  
Lot Number: SAMPLE  
Product Name: L(+)-2-Amino-4-phosphonobutanoic acid (L-AP4)  
CAS Number: 23052-81-5  
Molecular Formula:  $C_4H_{10}NO_5P$   
Molecular Weight: 183.10

Test	Specification	Result
Appearance	White to off-white solid	White solid
Purity (HPLC)	$\geq 97\%$	99.1%
Solubility	Soluble in dilute aqueous base	Complies
Optical Rotation ( $\alpha_{20/D}$ )	$+26.0 \pm 2.0^\circ$ ( $c = 1.4\%$ in 6 M HCl)	$+27.0^\circ$ ( $c = 1.4\%$ in 6 M HCl)
Carbon Content	26.24%	26.49%
Hydrogen Content	5.50%	5.35%
Phosphorus	16.92%	16.67%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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