



## CERTIFICATE OF ANALYSIS

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Product	L-Phenylalanine
Grade	High Purity
Product Code	PB0422
Formula	C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub>
MW	165.2
CAS#	63-91-2
Lot No	

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Test Items	Specifications	Results
Appearance	White crystalline powder	
Assay (dry basis)	98.5 -101.5%	
Specific Rotation [ $\alpha$ ] <sub>20</sub> <sup>D</sup>	-33.2° -35.2°	
Identification (IR)	Concordance with reference	
pH	5.4 – 6.0	
Loss on drying	≤0.20%	
Residue on ignition	≤0.10%	
Heavy metals	≤20ppm	
Arsenic	≤3ppm	

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Storage: 18~25°C.