



Certificate of Analysis

N-Glycyl-L-Tyrosine Dihydrate

Catalog Number: GT1007
Lot Number: 0514901
CAS Number: 39630-46-1, 658-79-7
Synonym(s): Gly-tyr; Glycyl-L-tyrosine
Molecular Formula: $C_{11}H_{14}N_2O_4 \cdot 2H_2O$
Molecular Weight: 274.27
Storage: -20°C
Date of Manufacture: April 25, 2019
Retest Date: April 24, 2020

Test	Specification	Result
Appearance	White microcrystalline solid	Conforms
Purity (HPLC)	≥ 99%	99.4%
Identity	IR, TLC	Conforms
Specific Rotation (c=1, H ₂ O)	+48° to +53°	+48.2°
Solubility	Clear & colorless	Conforms
pH	4.5 – 6.0	5.4
Impurities		
Cyclo(L-Glycyl-Tyrosine)	≤ 0.5%	0.0%
Total	≤ 1.0%	0.6%
Moisture	10.0 – 16.0%	13.5%
Ash	≤ 0.1%	< 0.1%
Heavy Metals	≤ 10ppm	< 10ppm
Methanol	≤ 3,000ppm	< 3,000ppm
Toluene	≤ 890ppm	< 890ppm
Ethyl Acetate	≤ 5,000ppm	< 5,000ppm

Approved by:

Date: May 16, 2019

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