



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-228394
Lot Number: SAMPLE
Product Name: L-Glutamic acid hemimagnesium salt tetrahydrate
CAS Number: 18543-68-5
Molecular Formula: $C_{10}H_{16}MgN_2O_8 \cdot 4H_2O$
Molecular Weight: 388.61

Test	Specification	Result
Appearance	Colorless or white powder or crystals	White powder
Identification (Infrared Spectrum)	Consistent with structure	Complies
Identification (TLC)	Consistent with standard	Complies
Purity (Nonaqueous Titration)	98.0 - 102.0% (HClO ₄ 0.1M)	100.5%
Specific Rotation ($\alpha_{20/D}$)	$24.5 \pm 1.0^\circ$ (c = 10 in hydrochloric acid 2 M)	24.3°
Carbon Content	30.91%	30.66%
Hydrogen Content	6.22%	6.18%
Nitrogen Content	7.21%	7.31%
Water Content	16.5 - 20.5%	17.1%

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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