



Certificate of Analysis

L-Aspartic Acid Hemimagnesium Salt Hydrate

Catalog Number: AH1002
Lot Number: 0405801
CAS Number: 2068-80-6
Molecular Formula: $(C_8H_{12}MgN_2O_8)_2 \cdot 2H_2O$; $C_8H_{12}MgN_2O_8$ (Dry Basis)
Molecular Weight: 324.53; 144.25 (Dry Basis)
Storage: 15°C – 30°C
Retest Date: April 5, 2020

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Purity (Anhydrous)	$\geq 98\%$	99.52%
Specific Rotation	$+20.0^\circ$ to $+25.0^\circ$	$+20.90^\circ$
Solubility (H ₂ O)	Clear and colorless	Conforms
pH	6.0 – 8.0	7.1
Moisture (KF)	$\leq 17\%$	11.8%
Chloride	$\leq 0.021\%$	TBD
Sulfate	$\leq 0.05\%$	TBD
Ammonium	$\leq 0.05\%$	$< 0.02\%$
Heavy Metals	$\leq 10\text{ppm}$	$< 10\text{ppm}$
Arsenic	$\leq 2\text{ppm}$	$< 2\text{ppm}$
Iron	$\leq 30\text{ppm}$	$< 30\text{ppm}$

Approved by:

Date: April 6, 2018

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