

CERTIFICATE OF ANALYSIS

PRODUCT NAME: 5-Aminolevulinic Acid Hydrochloride
CAS NO.: 5451-09-2
BATCH NO.: 23/MFM/3040
EXPIRY DATE: 2nd October 2025
STORAGE: 2°C - 8°C

TESTS	VALUE LIMIT	RESULTS
Appearance	Almost white powder	Conforms
Loss on drying	<= 1.0%	0.45%
Melting Point	149 - 155°C	149.9 to 151.0°C
Residue on ignition	<= 0.5%	0.04%
Heavy metals	<= 20ppm	Conforms
Iron	<= 20ppm	Conforms
Bacteria endotoxins	<= 0.4 USP EU/mg	Conforms
Microbial Limits:		
Total aerobic microbial count	<= 1000 cfu/g	Conforms
Staphylococcus aureus	Absence	Absence
Pseudomonas aeruginosa	Absence	Absence
Salmonella species	Absence	Absence
Escherichia Coli	Absence	Absence
Impurities		
Any other single impurity	<= 0.1%	Conforms
Total impurities	<= 0.5%	Conforms
Assay	98.0 – 102.0%	99.9%

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24th November 2023