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**CERTIFICATE OF ANALYSIS**

Product name:	<b>5-Aminolevulinic Acid Hydrochloride/5-ALA HCL</b>		
CAS No:	5451-09-2	Ref.standard	Enterprise standard
Batch Number:	NF-20180825	Manuf. Date:	Aug. 25, 2018
Batch Size:	186.4kg	Expiry Date:	Aug. 24, 2020
Storage Condition:	Preserve in tight, light resistant containers at 2°C - 8°C.		

TEST ITEM	SPECIFICATION	RESULTS
Appearance	Almost white to off-white	Almost white crystalline
Identification	HPLC	Conform
Loss on drying	≤1.0%	0.33%
Melting point	150°C--155°C	151.1°C--152.3°C
Residue on ignition	≤0.5%	0.10%
Heavy metals	≤20ppm	Conform
Iron	≤20ppm	Conform
Bacteria endotoxins	≤0.4 USP EU/mg	Conform
Microbial Limits		
Total aerobic microbial count	≤100 cfu/g	Conform
Staphylococcus aureus	Absence	Absence
Pseudomonas aeruginosa	Absence	Absence
Salmonella species	Absence	Absence
Escherichia Coli	Absence	Absence
Impurities		
Any other single impurity	≅ 0.3%	Conform
Total impurities	≅ 1.0%	0.30%
Assay	98.0%-102.0%	99.86%
Conclusion	The lot meets the specifications	

Inspector: MaJie

Reexamining: Li XiaoHu

Verification: Gao Jin

