

## Certificate of Analysis

Date of Testing: 2023-09-21 17:12:55  
Date of Next Testing: 2025-09-10 17:12:55  
Product Name: **laevulinic acid**  
CAS Number: 123-76-2  
Specifications & Purity: Analytical Reagent,99.0%  
Lot #: I2318024  
SKU #: **L104281**  
**Analysis:** **268749**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Chloride (Cl-)	0-0.005 (%)	0.00 %
Heavy metal (as Pb)	0-20 (ppm)	1.06 ppm
Refractive index n <sub>20</sub> /D	1.436-1.442	1.44
Iron(Fe)	0-10 (ppm)	1.17 ppm
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.01 (%)	0.00 %
Ignition Residue	0-0.05 (%)	0.02 %
Purity (Titration by NaOH)	98.5-101.5 (%)	99.98 %
Purity(GC)	99-100 (%)	99.68 %
Appearance (L104281)	Colorless to Yellow to Brown Liquid or Solid	Colorless to Yellow to Brown Liquid or Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager