

## Certificate of Analysis

Date of Testing: 2023-06-09 17:21:36  
Date of Next Testing: 2027-06-08 17:21:36  
Product Name: **D-Lactic Acid**  
CAS Number: 10326-41-7  
Specifications & Purity: >90.0%(T)  
Lot #: F2307328  
SKU #: **S161106**  
**Analysis: 105298**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(Neutralization titration)	90-110 (%)	90.40%
Specific Rotation $[\alpha]_{20/D}(c=2.5 \text{ in } 1.5\text{mol/L NaOH sol.})$	10-15 (°)	13.25°
Refractive index $n_{20/D}$	1.428-1.432	1.43
Appearance (S161106)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager