

## Specification Sheet

Product Name: **L-Lactic Acid**  
 Specifications & Purity: Chiral grade, 90%  
 SKU #: **L122090**

<b>Parameter</b>	<b>Limit Values</b>
Calcium(Ca)	0-0.0001 (%)
Methanol(CH <sub>3</sub> OH)	0-0.2 (%)
Chloride	0-0.001 (%)
(As)Arsenic	0-0.0001 (%)
Purity(Neutralization titration)	89.5-110.5 (%)
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.001 (%)
Refractive index n <sub>20</sub> /D	1.426-1.431
Lead(Pb)	<2(ppm)
Heavy metals	0-0.0005 (%)
Ignition Residue	0-0.05 (%)
Density (20°C)	1.2-1.22 (g/ml)
Cyanide	0-0.0001 (%)
Specific Rotation [α] <sub>20</sub> /D(c=2.5 in 1.5mol/L NaOH sol.)	-15--10 (°)
Mercury	0-1 (ppm)
Iron(Fe)	0-0.0005 (%)
Optical purity	99.5-100 (%)
Appearance (L122090)	Colorless Liquid
Citric acid, oxalic acid, tartaric acid, and phosphoric acid	is not muddy
Easy carbon compounds	does not change to dark gray
Identification (Acidic aqueous solution)	lactate positive reaction
Reducing sugars	No red precipitate
The ether insolubles	by EP
Volatile fatty acids	passes test