



Molekula Limited  
Lingfield Way  
Darlington  
County Durham  
DL1 4XX  
United Kingdom  
+44 (0) 3302 000333  
info@molekula.com

# Specification

## Technical Data Sheet

<b>Product Name</b>	DL-alpha-Lipoic acid (DL Thiocctic acid)
<b>Product No</b>	27534819
<b>CAS Number</b>	1077-28-7
<b>Storage Temperature</b>	Ambient
<b>Molecular Weight</b>	206.33
	<b>Specification</b>
<b>Melting Point</b>	60 - 62°C
<b>Specific rotation</b>	-1.0° to +1.0°
<b>Heavy metals</b>	≤ 10ppm
<b>Lead</b>	≤ 3.0ppm
<b>Total plate count</b>	≤ 1000 CFU/g
<b>Loss on Drying</b>	≤ 0.20%
<b>Assay</b>	99 - 101%
<b>Cadmium</b>	≤ 1.0ppm
<b>Residue on Ignition</b>	≤ 0.10%
<b>Particle Size</b>	100% through 40 mesh
<b>Mercury</b>	≤ 0.1ppm
<b>Ethyl acetate</b>	≤ 250ppm
<b>Staphylococcus aureus</b>	Absence/g
<b>Toluene</b>	≤ 20ppm
<b>Appearance</b>	Slightly yellow crystalline powder
<b>Identification (HPLC) .</b>	Conforms to requirements
<b>Mould and Yeast</b>	≤ 100 CFU/g
<b>USP, Ph. Eur.</b>	USP Grade
<b>Total impurity (HPLC)</b>	≤ 2.0%
<b>Cyclohexane</b>	≤ 1000ppm
<b>Single impurity (HPLC)</b>	≤ 0.1%
<b>E. Coli and Salmonella</b>	Absence/g