



# Trafa Pharmaceutical Supplies, LLC

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R#15576  
RI 1595  
12-14-22

## Certificate of Analysis

Product: L-Carnitine Fumarate  
Batch: TRF-20220762  
Manufacturing Date: July 2022  
Expiration Date: July 2025

<u>Content</u>	<u>Specification</u>	<u>Results</u>
Appearance:	<b>White crystalline powder</b>	Conforms
Assay:	>99%	<b>99.78%</b>
L-Carnitine:	>55%	<b>55.44%</b>
Fumaric acid	>40%	40.30%
Loss on Drying:	<1.0%	0.41%
Residue on Ignition:	<0.5%	0.24%
Specific Rotation:	-16° -- -18°	-16.6°
pH:	3-4	Conforms
Chloride:	<0.5%	Conforms
Cyanide:	Negative	Conforms
Heavy metals:	<10ppm	Conforms
Cadmium:	<1ppm	Conforms
Mercury:	<1ppm	Conforms
Arsenic:	<1ppm	Conforms
Lead:	<1ppm	Conforms
<u>Microbiological Control</u>		
Total Plate Count:	<1000cfu/g	Conforms
Mold & Yeast:	<100cfu/g	Conforms
E. Coli:	Negative	Conforms
Salmonella:	Negative	Conforms
Standard:	USP	

Note: The above information is based on the certificate of analysis received from the manufacturer of this product and not intended as a substitute for strict quality control analysis by the purchaser of this product.

Reviewed by :   
Abdullah Malik (QA)