

**Analytical Data Sheet**

<b>Lot number</b>	<b>1000035684</b> not for drug use
<b>Product</b>	<b>L-Carnitine</b> (R)- $\beta$ -Hydroxy- $\gamma$ -(trimethylammonio)butyrate
<b>Product number</b>	<b>4030429.0025</b>
<b>Molecular formula</b>	C <sub>7</sub> H <sub>15</sub> NO <sub>3</sub>
<b>Relative molecular mass</b>	161.20

<b>Tests</b>	<b>Results</b>
<b>Appearance</b>	white powder
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in water)
<b>Identification (IR)</b>	conforms to reference spectrum
<b>Identification (TLC)</b>	complies with authentic material
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -31.0^\circ$ (1% in water)
<b>Purity (TLC)</b>	> 99%
<b>TLC conditions</b>	n-butanol/acetic acid/ H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
<b>Enantiomer content (GC)</b>	0.2% D-enantiomer
<b>Assay (titration)</b>	96.6%

Latest update: August 07, 2020

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