



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

<b>Catalogue Number</b>	04-2401
<b>Product</b>	<b>L-Pyroglutamic acid</b>
<b>Lot Number</b>	001192-190218 L-Pyr-OH
<b>CAS Number</b>	98-79-3
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>7</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	129.1

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<b>Appearance</b>	White crystalline powder
<b>Heavy Metals</b>	< 10 ppm
<b>Anion</b>	Chloride (Cl) : < 0.02% Sulfate (SO <sub>4</sub> ) : < 0.02%
<b>Cation</b>	Ammonium (NH <sub>4</sub> ) : < 0.02% Iron (Fe) : < 10 ppm Arsenic (As <sub>2</sub> O <sub>3</sub> ) : < 1 ppm
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -11.58 °
<b>Loss on Drying</b>	0.36%
<b>Residue On Ignition</b>	0.08% (Sulfated)
<b>Assay by titration</b>	99.10%
<b>Storage</b>	Store at RT

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