

# Chem-Impex International, Inc.

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Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalogue Number</b>	32443
<b>Lot Number</b>	002948-20210301
<b>Product</b>	<b>(±)-Epinephrine hydrochloride</b> DL-Adrenaline hydrochloride
<b>CAS Number</b>	329-63-5
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>13</sub> NO <sub>3</sub> •HCl
<b>Molecular Weight</b>	219.67

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<b>Appearance</b>	White powder
<b>Water Content (Karl Fisher)</b>	0.06%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 0 °
<b>Residual Solvents</b>	Residual volatile impurities : Ethanol : Not detected Acetone : 230 ppm Methanol : 500 ppm Isopropyl ether : Not detected
<b>Related Substances</b>	Limit of Adrenalone : A310 nm : 0.08 Limit of Norepinephrine : Not detected
<b>Residue On Ignition</b>	0.03%
<b>Assay</b>	99.5%
<b>Grade</b>	meets USP specifications
<b>Storage</b>	Store at 2 - 8 °C
<b>Additional Information</b>	Identifications : Passes test
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager