

# 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>	32521
<b>Lot Number</b>	002917-142
<b>Product</b>	<b>Strychnine sulfate pentahydrate</b>
<b>CAS Number</b>	60491-10-3
<b>Molecular Formula</b>	$C_{42}H_{44}N_4O_4 \cdot H_2SO_4 \cdot 5H_2O$
<b>Molecular Weight</b>	856.99

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<b>Appearance</b>	White crystalline powder
<b>Solubility</b>	1gm Strychnine sulfate dissolve in 35ml of water, in 85ml of alcohol & 220ml of chloroform 1gm Strychnine sulfate dissolve in 7ml of boiling water, 25ml of alcohol at 70 °C Freely soluble in glycerine but insoluble in ether
<b>Odor</b>	Odorless
<b>Acidity</b>	0.25%
<b>Loss on Drying</b>	9.1% at 105 °C
<b>Readily Carbonizable Substance</b>	Dissolve 200mg of substances in 5ml of Sulfuric Acid. Solution has no more color then matching fluid (A)
<b>Residue On Ignition</b>	0.05%
<b>Assay by titration</b>	99.6%
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Taste : Extremely bitter Brucine : Free Identification : A) To 2ml solution of Strychnine Sulfate in Sulfuric Acid (1 in 20) and fragment of $K_2Cr_2O_7$ and agitate gently till a Blue color develops. It changes to Violet then Red to Yellow or Orange. B) To about 10mg of the substance and few drop of solution of Ammonium Vanadate in Sulfuric Acid (1 in 100) a deep Violet Blue color is produce, which changes to Purple and finally to Cherry Red. C) A solution of Strychnine Sulfate (1 in 50) response to the test for Sulfate.

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Catalog Number: 32521

Lot Number: 002917-142

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**Remarks**

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**