

# *Chem-Impex International, Inc.*

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## *Certificate of Analysis*

|                         |                           |
|-------------------------|---------------------------|
| <b>Catalogue Number</b> | 32520                     |
| <b>Lot Number</b>       | 002917-140                |
| <b>Product</b>          | <b>Strychnine nitrate</b> |

|                          |                                  |
|--------------------------|----------------------------------|
| <b>CAS Number</b>        | 66-32-0                          |
| <b>Molecular Formula</b> | $C_{21}H_{22}N_2O_2 \cdot HNO_3$ |
| <b>Molecular Weight</b>  | 397.43                           |

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|---------------------------------------|---|
| <b>Appearance</b>                     | White crystalline powder  |
| <b>Solubility</b>                     | 1 gram of Strychnine Nitrate dissolve in 45ml of H <sub>2</sub> O in 150ml of C <sub>2</sub> H <sub>5</sub> OH, in 50ml of Glycerin & in 105ml of Chloroform. 1 gm is suitable in 10ml of boiling water & in 80ml of C <sub>2</sub> H <sub>5</sub> OH at 60 °C.<br>It is insoluble in Ether |
| <b>Odor</b>                           | Odorless  |
| <b>Acidity</b>                        | 0.25 ml   |
| <b>Readily Carbonizable Substance</b> | Dissolve 250mg of Strychnine Nitrate in 5ml of H <sub>2</sub> SO <sub>4</sub> , the color of the solution is not deeper than a matching fluid consisting of 2.5ml of Cobalt Chloride, 2.5ml of Ferric Chloride and 0.2ml of Cupric Sulfate  |
| <b>Residue On Ignition</b>            | 0.03%   |
| <b>Assay by titration</b>             | 99%   |
| <b>Storage</b>                        | Store at RT   |

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## Additional Information

Taste: Extremely bitter

Brucine : Free

Identification:

A) 0.02g of preparation is placed in a porcelain dish, 5ml of concentrated Sulfuric Acid and a few crystal of Potassium Bichromate are added. When carefully shaking of the dish violet and blue rapidly disappearing bands are formed.

B) 0.01g of preparation is placed in porcelain dish, a few drops of Diphenylamine are added, a blue color is produced.

C) Superimpose a solution of Strychnine Nitrate (1 in 50) upon Diphenyl test solution, contained in a test tube a Blue color develop at the zone of contact

Chloride: Acidify 20ml of solution of Strychnine Nitrate (1 in 100), with 2 drops of dilute HNO<sub>3</sub> added 5 drops of Silver Nitrate test solution, no procaine is produced immediately

Sulfate: Acidify the 2ml of Strychnine Nitrate solution (1 in 100) with 2 drops of HCL & added 5 drops of Barium Chloride testing solution, no turbidity produces immediately

## 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**