



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

|                   |  |
|-------------------|--|
| Catalogue Number  | 04-2034  |
| Lot Number        | 001192-8002814064  |
| Product           | <b>L-Lysine hydrate</b>  |
|                   | L-Lys-OH•H <sub>2</sub> O  |
|                   | (S)-2,6-Diaminohexanoic acid monohydrate                                       |
| CAS Number        | 39665-12-8   |
| Molecular Formula | C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> •H <sub>2</sub> O |
| Molecular Weight  | 164.2  |

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|   |   |
|---|---|
| Appearance                                | White or primrose yellow crystalline powder                                   |
| Heavy Metals                              | < 10 ppm (as Pb)  |
| Trace Metal Analysis                      | Iron (Fe): < 10 ppm   |
| Arsenic (As <sub>2</sub> O <sub>2</sub> ) | < 1 ppm   |
| Anion                                     | Chloride (Cl <sup>-</sup> ): < 0.020%<br>Sulfate (SO <sub>4</sub> ): < 0.020% |
| Cation                                    | Ammonium (NH <sub>4</sub> ): < 0.020%   |
| Optical Rotation                          | [α] <sub>D</sub> <sup>20</sup> = +23.2° (C=2 in 6N HCl)                       |
| Transmission                              | > 95%   |
| Loss on Drying                            | 9.5%  |
| Other Amino Acids                         | Chromatographically not detectable  |
| Residue On Ignition                       | 0.06%   |
| Assay                                     | 99.4%   |
| Storage                                   | Store at RT   |