



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

| | |
|--------------------------|--|
| Catalogue Number | 04-1050 |
| Lot Number | 20080719 |
| Product | D-Citrulline |
| | D-Cit-OH |
| | (R)-2-Amino-5-ureidopentanoic acid |
| CAS Number | 13594-51-9 |
| Molecular Formula | C ₆ H ₁₃ N ₃ O ₃ |
| Molecular Weight | 175.19 |

| | |
|-----------------------------|--|
| Appearance | White to off-white powder |
| Heavy Metals | < 10 ppm (as Pb) |
| Trace Metal Analysis | Arsenic (As ₂ O ₃) < 1 ppm Chloride (Cl) < 0.02% |
| Optical Rotation | [α] _D ²⁰ = -25.1° (C=8 in 6N HCl) |
| Infrared Spectrum | Conforms to structure |
| Transmission | > 98% |
| Loss on Drying | 0.2% |
| Other Amino Acids | Chromatography pure |
| Residue On Ignition | < 0.1% |
| Assay | 99.8% |
| Storage | Store at 0-8 °C |