

# **Chem-Impex International, Inc.**

**Tel:** (630) 766-2112

**E-mail:** [sales@chemimpex.com](mailto:sales@chemimpex.com)

**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218

**Web site:** [www.chemimpex.com](http://www.chemimpex.com)

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

---

## **Certificate of Analysis**

|                                                       |                                                                                         |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Catalog Number</b>                                 | 00428                                                                                   |
| <b>Product Name</b>                                   | D-Arginine<br>D-Arg                                                                     |
| <b>Lot Number</b>                                     | QJH0011                                                                                 |
| <b>CAS Registry Number</b>                            | 157-06-2                                                                                |
| <b>Molecular Formula</b>                              | C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>                            |
| <b>Molecular Weight</b>                               | 174.2                                                                                   |
| <b>Melting Point</b>                                  | 226°C (dec)                                                                             |
| <b>Assay</b>                                          | 99%                                                                                     |
| <b>Solubility in Water</b>                            | Clear & colorless (c=5)                                                                 |
| <b>Specific Rotation (<math>\alpha^{20}_D</math>)</b> | -27.2° (c=8, 6N-HCl)                                                                    |
| <b>Loss on Drying</b>                                 | 0.41%                                                                                   |
| <b>Residue on Ignition</b>                            | 0.02%                                                                                   |
| <b>Chloride (Cl)</b>                                  | <0.05%                                                                                  |
| <b>Sulfate (SO<sub>4</sub>)</b>                       | <0.03%                                                                                  |
| <b>Heavy Metals</b>                                   | <15ppm                                                                                  |
| <b>Iron (Fe)</b>                                      | <15ppm                                                                                  |
| <b>Ammonium (NH<sub>4</sub>)</b>                      | 0.02%                                                                                   |
| <b>Arsenic (As)</b>                                   | <1ppm                                                                                   |
| <b>Other Amino Acids</b>                              | Not detected by P.P.C.(The spotted amount, 50µg)                                        |
| <b>Remarks</b>                                        | See material safety data sheets for additional information.<br>For laboratory use only. |

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



**Sashi Kumar**  
**Quality Control Manager**

