

### Technical Information

#### L-Arginine

#### Plant Culture Tested

**Product Code: PCT1302**

#### Product Information

|                   |                                    |
|-------------------|------------------------------------|
| Product Code      | : PCT1302                          |
| Product Name      | : L-Arginine, Plant Culture Tested |
| Molecular Formula | : $C_6H_{14}N_4O_2$                |
| Molecular Weight  | : 174.20                           |
| CAS No.           | : 74-79-3                          |

#### Technical Specification

|   |   |
|---|---|
| Appearance                                | : White crystalline powder.   |
| Solubility                                | : Soluble in water.   |
| Reaction                                  | : Reaction of 0.5 M aqueous solution at 25°C.   |
| pH  | : 10.50 - 12.00   |
| Cultural response                         | : Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2°C), Photoperiod Day: Night in hours (16:8) |
| Shoot culture                             | : No structural deformity observed, actively growing shoots, no toxicity to shoots  |
| Callus culture                            | : No necrotic tissues, actively growing callus, no toxicity to callus   |
| Chloride (Cl)                             | : ≤ 0.02%   |
| Ammonium (NH <sub>4</sub> )               | : ≤ 0.02%   |
| Heavy metals (as Pb)                      | : ≤ 0.001%  |
| Loss on drying                            | : ≤ 0.5%  |
| Iron (Fe)                                 | : ≤ 0.001%  |
| Sulphate (SO <sub>4</sub> )               | : ≤ 0.02%   |
| Arsenic (As <sub>2</sub> O <sub>3</sub> ) | : ≤ 0.0001%   |
| Residue on ignition                       | : ≤ 0.1%  |
| Specific rotation (α 20/D)                | : +26.9° to +27.9°  |
| Minimum Assay (on dry basis)              | : 99.00 %   |

#### Risk and Safety Information

|                         |                    |
|-------------------------|--------------------|
| WGK                     | : --               |
| RTECS                   | : --               |
| Storage Temperature(°C) | : Store below 30°C |

#### Transport Information

|                  |                       |
|------------------|-----------------------|
| Marine Pollutant | : No                  |
| ADR/RID          | : Not Dangerous Goods |
| IMDG             | : Not Dangerous Goods |
| IATA             | : Not Dangerous Goods |



**Plant Culture  
Tested**



## Product Specification

cdhfinechemical.com

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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