

## CERTIFICATE OF ANALYSIS

Standard product specification

# Ibuprofen-D3

CAS 121662-14-4 · Fine chemical grade — assay on specification

## 1. PRODUCT IDENTITY

|                   |                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------|
| Product name      | Ibuprofen-D3                                                                               |
| C.A.S. number     | 121662-14-4                                                                                |
| Grade / standard  | Fine chemical grade — assay on specification                                               |
| Description       | Clear colorless liquid                                                                     |
| Product group     | Deuterated NMR Solvents                                                                    |
| Category          | <a href="#">Laboratory &amp; Analytical Reagents</a>                                       |
| Country of origin | India                                                                                      |
| Packing           | Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available |
| Storage           | Cool, dry, well-ventilated place in tightly closed original packing                        |

## 2. ANALYTICAL SPECIFICATION

| S. NO. | TEST PARAMETER           | SPECIFICATION                              | TYPICAL RESULT | METHOD                 |
|--------|--------------------------|--------------------------------------------|----------------|------------------------|
| 1      | Description              | Clear colorless liquid                     | Complies       | Visual                 |
| 2      | Identification           | Conforms to the structure of the substance | Complies       | FTIR / Chemical test   |
| 3      | Purity (by GC)           | Not less than 99.5 % (area)                | 99.82          | Gas Chromatography     |
| 4      | Colour (APHA / Pt-Co)    | Not more than 10                           | 4              | ASTM D1209             |
| 5      | Water Content            | Not more than 0.05 % w/w                   | 0.0090         | Karl Fischer titration |
| 6      | Acidity (as acetic acid) | Not more than 0.002 % w/w                  | 0.0004         | Titrimetry             |

|   |                           |                           |          |                            |
|---|---------------------------|---------------------------|----------|----------------------------|
| 7 | Residue on Evaporation    | Not more than 0.001 % w/w | 0.0004   | Gravimetry                 |
| 8 | Specific Gravity at 25 °C | As per specification      | Conforms | Pycnometry / ASTM D4052    |
| 9 | Refractive Index at 20 °C | As per specification      | Conforms | Refractometry / ASTM D1218 |

### 3. DECLARATION

This document sets out the standard specification for Ibuprofen-D3 and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.



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