

## CERTIFICATE OF ANALYSIS

### ALDEHYDE C-12 MNA AROMA CHEMICAL

**Product Name:** Aldehyde C-12 MNA  
**Chemical Name:** 2-Methylundecanal  
**CAS No.:** 110-41-8  
**Molecular Formula:** C<sub>12</sub>H<sub>24</sub>O  
**Molecular Weight:** 184.32 g/mol  
**Product Type:** Aroma Chemical / Fragrance Ingredient  
**Grade:** Perfumery / Cosmetic Grade  
**Batch/Lot No.:** BPCAC12AC112026  
**Retest/Expiry Date:** November 2031  
**Country of Origin:** India

| Test Item               | Specification                              | Test Result   |
|-------------------------|--------------------------------------------|---------------|
| Appearance              | Colorless to pale-yellow liquid            | Conforms      |
| Odor                    | Strong, fresh, aldehydic, citrusy and waxy | Conforms      |
| Identification          | Conforms to reference standard             | Conforms      |
| Assay / Purity          | ≥ 98.0%                                    | 98.7%         |
| Specific Gravity @ 25°C | 0.830–0.850                                | 0.839         |
| Refractive Index @ 20°C | 1.430–1.440                                | 1.435         |
| Acid Value              | ≤ 2.0 mg KOH/g                             | 0.65 mg KOH/g |
| Moisture                | ≤ 0.50%                                    | 0.13%         |
| Color                   | Colorless to pale yellow                   | Conforms      |
| Solubility in Water     | Practically insoluble                      | Conforms      |
| Solubility in Alcohol   | Soluble                                    | Conforms      |
| Odor Evaluation         | Fresh, citrusy, aldehydic, clean, waxy     | Conforms      |

**Odor Profile:** Fresh • Citrusy • Aldehydic • Clean • Waxy • Slightly Metallic • Slightly Floral

This product is a 100% pure and natural. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to botanic Planet. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing contained herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

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