

# CERTIFICATE OF ANALYSIS

Perfumery & Fragrance Grade Quality Assurance



## ALKEMIST SDA 40B

Specially Denatured Solvent 40B (Perfumery Grade - 96% to 97% Concentration)

LOT/BATCH: ALK-2511-15-B

**Product Name:** Alkemist SDA 40B

**Country of Origin:** Germany

**Concentration Standard:** 96.0% - 97.0% v/v (Perfumery)

**Manufacturing Date:** NOV 2025

**Batch / Lot Number:** ALK-2511-15-B

**Expiration / Retest Date:** NOV 2032

**Manufacturer:** Alkemist Pakistan | Middle East

**Address:** RAIL BAZAR NEAR CHEMA MEDICAL STORE, CITY HAFIZABAD - PAKISTAN | **Contact:** +923152372222 | admin@alkemist.org

### ANALYTICAL RESULTS

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| TEST PARAMETER             | METHOD       | SPECIFICATION                                        | RESULT           | STATUS |  |
|----------------------------|--------------|------------------------------------------------------|------------------|--------|--|
| Appearance                 | Visual       | Clear, colorless liquid                              | Clear, Colorless | PASS   |  |
| Odor                       | Organoleptic | Neutral, Clean Solvent (Substantially Odorless Base) | Conforms         | PASS   |  |
| Solvent Assay (v/v)        | GC           | 96.0% – 97.0%                                        | 96.50%           | PASS   |  |
| Specific Gravity @ 20°C    | Hydrometer   | 0.8030 – 0.8080                                      | 0.8052           | PASS   |  |
| Water Content              | Karl Fischer | 3.0% – 4.0%                                          | 3.48%            | PASS   |  |
| Acidity (as Acetic Acid)   | Titration    | ≤ 0.002%                                             | 0.0008%          | PASS   |  |
| Non-Volatile Residue       | Gravimetric  | ≤ 1.5 mg/100ml                                       | < 0.5 mg         | PASS   |  |
| Permanganate Time Test     | ASTM D1363   | ≥ 45 Minutes                                         | > 50 Min         | PASS   |  |
| Fusel Oils & Foreign Odors | GC / Sensory | Absent / Pass Fine Fragrance Test                    | Conforms         | PASS   |  |

### DENATURANT FORMULATION (SDA 40B)

| INGREDIENT                   | TARGET CONCENTRATION    | FOUND / STATUS |  |
|------------------------------|-------------------------|----------------|--|
| Tert-Butyl Solvent (TBA)     | 0.125% v/v (approx)     | Conforms       |  |
| Denatonium Benzoate (Bitrex) | 6.0 – 10.0 ppm (approx) | Conforms       |  |
| New Ingredient               | Target %                | Conforms       |  |

**Conclusion:** This material meets the stringent specifications for Specially Denatured Solvent 40B (Perfumery Grade 96-97% v/v) as per international fine fragrance standards. It is optimized for premium perfume, body mist, and aroma formulation.

#### ⚠ SAFETY & USAGE DISCLAIMER / اہم احتیاطی فیفاہ

غیر پینے کے قابل / NON-POTABLE

**FOR INDUSTRIAL FORMULATION ONLY:** This product is manufactured strictly for external use in perfume, fine fragrance, and cosmetic manufacturing. NOT FOR DRINKING OR HUMAN CONSUMPTION. Ingestion is severely dangerous, highly toxic, and potentially fatal.

صرف صنعتی فارمولیشن کے لیے: یہ پروڈکٹ صرف پرفیوم، عطر اور کاسمیٹک کی تیاری اور مینوفیکچرنگ کے لیے ہے۔ یہ انسانوں کے پینے یا استعمال کے لیے برکڑ نہیں ہے۔ اس کا نادانستہ استعمال یا پینا زہریلا، انتہائی خطرناک اور جان لیوا ثابت ہو سکتا ہے۔

M. Adeel

Dr. A. Rahman

**M. Adeel**

Quality Control Manager  
Date: NOV 2025

**Dr. A. Rahman**

Lab Director / Approved By  
Date: NOV 2025

This Certificate of Analysis was created electronically and is valid without a handwritten signature. The values presented are based on analysis of the specific batch mentioned above. Handling of this product should be in accordance with the Safety Data Sheet (SDS).

Alkemist Pakistan | Middle East

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SCAN FOR  
AUTHENTICATION

