



CERTIFICATE OF ANALYSIS (COA)

PRODUCT INFORMATION

Product Name: Barley Roasted Extract

Botanical Name: *Hordeum vulgare* L.

INCI Name: *Hordeum Vulgare* Seed Extract

CAS Number: 85251-64-5

EC Number: 286-476-2

Diluent: Triethyl Citrate (TEC)

Composition: 40% Roasted Barley Extract in 60% Triethyl Citrate

Country of Origin: India

Plant Part: Roasted Seeds (Grains)

Extraction Method: Solvent Extraction followed by dilution in Triethyl Citrate

Product Type: Natural Extract

Batch Number: BRE-260702

Manufacturing Date: June 2026

Retest Date: June 2028

Issue Date: 02 July 2026

SPECIFICATION

Test	Specification	Result
Appearance	Clear to slightly hazy liquid	Conforms
Colour	Dark brown to deep amber	Conforms
Odour	Rich roasted cereal, toasted grain, caramel, mocha,	Conforms



	coffee-like	
Relative Density (20 °C)	1.100 – 1.160	Conforms
Refractive Index (20 °C)	1.4300 – 1.4450	Conforms
Solubility	Soluble in ethanol, fragrance oils and fixed oils; insoluble in water	Conforms
Composition	40% Roasted Barley Extract / 60% Triethyl Citrate	Conforms
Botanical Identity	<i>Hordeum vulgare</i> L.	Conforms
Purity	Free from added preservatives and synthetic colouring	Conforms
Foreign Matter	None Detected	Conforms

The physical specification ranges are consistent with technical data published for barley extracts and triethyl citrate-based fragrance dilutions.

ADDITIONAL INFORMATION

Chemical Class: Natural Botanical Extract

Physical State: Liquid

Carrier: Triethyl Citrate (TEC)

Purity: 40% Natural Roasted Barley Extract

GMO Status: GMO Free

BSE/TSE Status: Free from animal-derived materials

Irradiation: Not Irradiated

Residual Solvents: Complies with manufacturing specification

Preservatives: None Added

ORGANOLEPTIC PROFILE

Characteristic Description

Top Notes Warm roasted grain, toasted cereal



Heart Notes Caramel, malt, bread crust, light coffee

Base Notes Cocoa, roasted nuts, dry gourmand, cereal absolute

CONCLUSION

The above material conforms to the established quality specifications for Barley Roasted Extract 40% TEC and is suitable for professional perfumery, cosmetic and fragrance applications.

Barley Roasted Extract is produced from roasted seeds of *Hordeum vulgare* and diluted to 40% in Triethyl Citrate (TEC) to provide excellent handling characteristics while preserving its rich roasted cereal profile. The material exhibits distinctive notes of toasted barley, caramel, malt, coffee, cocoa and baked bread, making it particularly valuable in gourmand, coffee, tobacco, whisky, amber, leather and culinary-inspired fragrance accords. The botanical source is *Hordeum vulgare*, one of the world's oldest cultivated cereal grains.

Authorized by

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