



CERTIFICATE OF ANALYSIS (COA)

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Pine Absolute

PRODUCT INFORMATION

Product Name: Pine Absolute
Botanical Name: *Pinus sylvestris* L.
INCI Name: Pinus Sylvestris Leaf Extract

CAS Number: 8023-99-2
FEMA Number: 2906

Product Type: Natural Botanical Absolute / Perfumery Raw Material
Plant Part: Pine Needles / Leaves
Olfactive Profile: Balsamic • Resinous • Sweet • Woody • Warm • Pine-Like

CAS 8023-99-2 is documented for *Pinus sylvestris* leaf absolute / Scotch pine material, and Robertet's current natural-material catalogue also lists Pine Absolute – CAS 8023-99-2 as natural under ISO 9235.

ORGANOLEPTIC & QUALITY SPECIFICATIONS

Test	Specification	Result
Appearance	Viscous Liquid / Semi-Solid Botanical Absolute	Conforms
Colour	Dark Green to Greenish-Brown	Conforms
Odour	Characteristic, Balsamic, Resinous, Sweet, Woody and Pine-Like	Conforms
Solubility in Alcohol	Soluble	Conforms
Solubility in Water	Insoluble	Conforms
Botanical Identity	Consistent with <i>Pinus sylvestris</i> L.	Conforms
CAS Identity	8023-99-2	Conforms



The alcohol-soluble/water-insoluble characteristics and balsamic, sweet, spicy and resinous pine profile are supported by published reference data for CAS 8023-99-2.

ADDITIONAL QUALITY REQUIREMENTS

Parameter	Specification
Peroxide Value	<10 mmol/L
Adulteration	No Undeclared Synthetic Fragrance Addition
Foreign Matter	Free From Visible Foreign Matter
Identity	Organoleptic Profile and/or GC/MS Consistent With Reference Material

For Pinaceae-derived materials, the referenced IFRA specification calls for peroxide levels to be kept as low as practicable and specifies a peroxide value of less than 10 mmol/L.

QUALITY ASSESSMENT

Appearance: PASS

Colour: PASS

Odour: PASS

Solubility: PASS

Botanical Identity: PASS

CAS Identity: PASS

OVERALL RESULT: CONFORMS

STATEMENT OF CONFORMITY

Aromology certifies that the material identified as Pine Absolute, CAS 8023-99-2, conforms to the stated organoleptic and identity specifications.

The material is a natural pine-derived aromatic raw material intended for use in perfumery and fragrance applications. CAS 8023-99-2 is also identified by the U.S. EPA as Scotch pine (*Pinus sylvestris* L.) material used as a fragrance ingredient.

As a natural botanical material, minor variation in colour, odour and analytical profile may occur between batches due to botanical origin, harvest conditions and processing.

STORAGE

Store in tightly closed containers in a cool, dry and well-ventilated place, protected from heat, direct sunlight and air exposure.

For Pinaceae materials, oxidation should be minimised and peroxide levels maintained as low as practicable.

Authorised by:

Fozia Khot

Director