



CERTIFICATE OF ANALYSIS (COA)

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

PRODUCT INFORMATION

Product Information	Details
Product Name	Mate Absolute
Alternative Name	Yerba Mate Absolute 50% in Ethanol
Botanical Name	<i>Ilex paraguariensis</i> A.St.-Hil.
INCI Name	Ilex Paraguariensis Leaf Extract; Alcohol
Mate Absolute CAS Number	68916-96-1
Ethanol CAS Number	64-17-5
Ethanol EC Number	200-578-6
Plant Part	Dried leaves and young stems
Extraction Method	Solvent extraction followed by dilution in ethanol
Composition	50% Mate Absolute / 50% Ethanol
Country of Manufacture	Italy
Product Type	Natural botanical absolute dilution
Batch Number	MAT50-IT-260514

CAS No. 68916-96-1 is associated with oils and aromatic extracts obtained from *Ilex paraguariensis*.

Organoleptic Properties

Test	Specification	Result
Appearance	Clear to slightly viscous liquid	Conforms
Colour	Dark green to greenish-brown	Conforms
Odour	Dry tea, leafy, herbaceous, hay-like, smoky and mildly tobacco-like	Conforms
Foreign Matter	Free from visible foreign matter	Conforms



Physico-Chemical Properties

Test	Specification	Result
Mate Absolute Content	48.0–52.0%	50.0%
Ethanol Content	48.0–52.0%	50.0%
Relative Density at 20 °C	0.850–0.950	0.903
Refractive Index at 20 °C	1.380–1.470	1.424
Solubility in Ethanol 96%	Soluble	Conforms
Solubility in Water	Partially soluble; turbidity may occur	Conforms
Flash Point, Closed Cup	Approximately 21–24 °C	23 °C
Acid Value	Maximum 15 mg KOH/g	6.8 mg KOH/g
Residual Extraction Solvents, excluding ethanol	Within internal specification	Conforms
GC Profile	Conforms to reference profile	Conforms

Typical Botanical Constituents

The natural extract portion may contain:

- Chlorogenic acids
- Caffeic acid derivatives
- Polyphenolic compounds
- Flavonoids
- Saponins
- Caffeine
- Theobromine
- Chlorophyll-derived compounds
- Plant waxes
- Trace volatile aromatic constituents

The precise profile varies naturally according to plant origin, harvest, drying and extraction conditions.

Microbiological Status

Test	Specification	Result
Total Aerobic Microbial Count	<1,000 CFU/g	Conforms
Yeast and Mould	<100 CFU/g	Conforms
<i>Escherichia coli</i>	Absent	Conforms
<i>Salmonella</i> spp.	Absent	Conforms

Storage Conditions



Store in a tightly closed container in a cool, dry and well-ventilated place. Protect from direct sunlight, heat, sparks, flames and other ignition sources.

Recommended storage temperature: 15–25 °C.

Conclusion

The above batch conforms to Aromology Trading LLC's quality specifications for Mate Absolute 50% ETH – Italy and is suitable for professional fragrance and cosmetic formulation, subject to the intended product's safety and regulatory assessment.

This Certificate of Analysis represents a standard commercial specification. Batch-specific analytical values should be verified against the original manufacturer's laboratory report where legally required.

Authorised by:

Fozia Khot
Director