



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Item	Details
Product Name	Fresh Pandan Leaves Absolute
Alternative Names	Pandan Leaf Absolute 30%, Fragrant Pandan Absolute, Screwpine Leaf Extract
Botanical Name	<i>Pandanus amaryllifolius</i> Roxb.
INCI Name	Pandanus Amaryllifolius Leaf Extract
CAS Number	1175005-60-30
FEMA Number	4963
Country of Origin	Vietnam
Plant Part	Fresh aromatic leaves
Extraction Method	Solvent extraction followed by concentration and dilution
Concentration	30% pandan leaf absolute
Carrier	70% perfumery-grade carrier; batch-specific identity to be confirmed
Product Grade	Professional perfumery and cosmetic grade
Batch Number	FPLA30-VN-0626
Manufacturing Date	14 June 2026
Issue Date	17 July 2026
Retest Date	14 June 2029

The FEMA identity for pandan leaf extract uses CAS 1175005-60-3 and describes the material as being derived from the leaves of *Pandanus amaryllifolius*.

2. COMPOSITION

Component	Concentration
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Fresh <i>Pandanus amaryllifolius</i> Leaf Absolute	30.00%
Perfumery-Grade Carrier	70.00%
Total	100.00%

No additional fragrance materials, colourants or preservatives are intentionally added.

3. ORGANOLEPTIC AND PHYSICOCHEMICAL ANALYSIS

Parameter	Specification	Representative Result	Status
Appearance	Clear to slightly turbid liquid	Clear liquid	Pass
Colour	Yellow-green to deep olive-green or green-brown	Olive-green	Pass
Odour	Fresh green pandan leaf with sweet, rice-like, nutty, creamy and lightly toasted nuances	Characteristic	Pass
Relative Density at 20°C	0.970–1.080	1.018	Pass
Refractive Index at 20°C	1.430–1.490	1.458	Pass
Solubility in Water	Insoluble or slightly dispersible	Complies	Pass
Solubility in Alcohol	Soluble or dispersible	Complies	Pass
Solubility in Perfumery Oils	Soluble or dispersible	Complies	Pass
Flash Point	Carrier dependent	Above 100°C under assumed carrier	Pass
Acid Value	Maximum 10.0 mg KOH/g	3.4 mg KOH/g	Pass
Peroxide Value	Maximum 10.0 meq O ₂ /kg	2.6 meq O ₂ /kg	Pass
Foreign Matter	Free from visible foreign matter	None observed	Pass
Sediment	Slight natural sediment permissible	None observed	Pass
Residual Extraction Solvent	Within applicable specification	Complies	Pass
Added Carrier Oil	Not permitted other than declared diluent	Not detected	Pass
Added Preservatives	Not permitted	Not detected	Pass

Physical values are representative because the density, refractive index, flash point and solubility of a 30% dilution are strongly influenced by the selected carrier.



4. REPRESENTATIVE AROMATIC PROFILE

Component or Chemical Group	CAS Number	Indicative Status
2-Acetyl-1-pyrroline	85213-22-5	Characteristic pandan aroma constituent; present at very low concentration
Phytol	150-86-7	Naturally occurring
Squalene	111-02-4	May be naturally occurring
Green-leaf aldehydes and alcohols	Various	Naturally occurring
Fatty acids and esters	Various	Naturally occurring
Chlorophyll-derived constituents	Various	Naturally occurring
Other plant-derived aromatic compounds	Various	Balance

The characteristic pandan aroma is associated particularly with low levels of pyrroline derivatives. FEMA describes its pandan leaf extract identity as containing less than 0.05% pyrroline derivatives in an appropriate solvent.

Because the product is a natural botanical extract, composition varies according to:

- Plant age and cultivation conditions
- Leaf freshness
- Harvest season
- Extraction solvent
- Extraction temperature
- Concentration method
- Carrier solvent
- Production batch

5. MICROBIOLOGICAL STATUS

Parameter	Specification	Representative Result
Total Aerobic Microbial Count	Less than 1,000 CFU/g	Less than 100 CFU/g
Yeast and Mould	Less than 100 CFU/g	Less than 10 CFU/g
<i>Escherichia coli</i>	Absent in 1 g	Absent
<i>Salmonella</i> spp.	Absent in 25 g	Absent
<i>Staphylococcus aureus</i>	Absent in 1 g	Absent
<i>Pseudomonas aeruginosa</i>	Absent in 1 g	Absent



Microbiological testing is recommended when the extraction or carrier system contains water.

6. QUALITY AND PURITY DECLARATION

The material described above:

- Is derived from fresh Vietnamese *Pandanus amaryllifolius* leaves.
- Contains 30% pandan leaf absolute.
- Contains 70% declared perfumery-grade carrier.
- Contains no intentionally added synthetic fragrance compounds.
- Contains no intentionally added colourants.
- Contains no intentionally added preservatives.
- Is intended for professional fragrance and cosmetic formulation.
- Is not intended for internal consumption.
- Must be evaluated in the intended finished formulation before commercial use.

7. CONCLUSION

THE REPRESENTATIVE BATCH COMPLIES WITH THE ABOVE SPECIFICATIONS

8. STORAGE AND SHELF LIFE

Store in the original, tightly closed container in a cool, dry and well-ventilated location.

Protect from:

- Direct sunlight
- Excessive heat
- Moisture
- Prolonged air exposure
- Strong oxidising agents
- Sources of contamination

Natural darkening or slight sedimentation may occur during storage and does not necessarily indicate deterioration.

Mix gently before use where natural sediment is present.

Recommended shelf life: 36 months from the manufacturing date when stored correctly.



9. DISCLAIMER

The analytical results shown are representative values prepared for product documentation. They do not represent an actual laboratory-tested batch unless supported by corresponding analytical records.

Batch-specific test results and the confirmed identity of the 70% carrier must take precedence.

Authorised by:
Fozia Khot
Director