

Sustainability Index

Product	Chiraroma®	Sustainable Scent™	Biobased Index	Biodegradability	ISO 16128	Nature Identical	High Impact
AMBER							
Dextramber®	●	-	●	●●●	●	-	●
Polyambrol®	-	-	●●	●	●	●	-
CITRUS							
Citral Extra	-	-	-	●	-	●	-
Hedirosa®	●	-	●●	●●●	●	-	-
Levocitrile®	●	●	●●●	●●●	●	-	-
<i>l</i> -Limonene - 80	-	-	●●●	○	●	●	-
Lorexan®	-	-	-	○	-	-	-
Myrcene P&F T500	-	-	●●●	●●	●	●	-
Phellandrene	-	-	●●●	●●	●	●	-
Terpinen-4-ol Natural	-	-	●●●	○	●	●	-
Terpinolene	-	-	●●●	○	●	●	-
EARTHY							
Humus Ether®	-	-	●	●	-	-	●
Matsutakeol	-	-	-	-	-	●	●
FLORAL							
Biocyclamol®	●	●	●●●	●●●	●	●	-
Biomuguet®	●	●	●●●	●●●	●	●	-
cis-Jasmone	-	-	-	●●●	-	●	-
<i>l</i> -Citronellol	●	●	●●●	●●●	●	●	-
<i>l</i> -Citronellyl Acetate	●	-	●●	●●●	●	●	-
Dihydro beta Ionone	-	-	-	●●	-	●	-
<i>l</i> -Dihydro Citronellol	●	-	●●●	●●●	●	●	-
Florantone T	-	-	-	-	-	-	-
Geraniol Extra	-	-	●●●	○	●	●	-
Geranyl Acetate	-	-	●●	○	●	●	-
Ionone alpha	-	-	-	●	-	●	-
Jasmodione®	-	-	-	●●	-	●	-
<i>l</i> -Laurinal®	●	●	●●●	●●●	●	●	-
Nerol Extra	-	●	●●●	●●●	●	●	-
Neryl Acetate	-	-	●●	●●●	●	●	-
Sakura Salicylate®	-	-	-	●●●	-	-	-

Biodegradability

●●● Readily ●● Inherently ● Partially ○ Not Assessed - Not Readily

Biobased Index

●●● 100% ●● ≥ 75% ● ≥ 50% - < 50%

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FRUITY							
Angelica Lactone alpha	-	●	●●●	●●●	●	●	-
Cyclohexyl Lactone	-	-	-	●●	-	-	-
Dimethyl Dioxolan	-	-	-	○	-	-	-
Methyl Dioxolan	-	-	-	○	-	-	-
Sauvignone 100	-	-	-	○	-	-	●
Thesaron®	●	-	●●●	-	●	-	-
GREEN							
Trepanol®	-	●	●●●	●●●	-	-	-
Violet T	-	-	-	●●	-	-	●
HERBAL							
Cypressan	-	-	-	○	-	-	-
Matsutake Acetate	-	-	-	○	-	●	●
/-Menthyl Acetate	●	-	●●	○	●	●	-
Piperitone 95	-	-	●●●	○	●	●	-
MINT							
/-Menthol	●	●	●●●	●●●	●	●	-
Menthone Natural	-	-	●●●	-	●	●	-
Menthone Synthetic	-	-	●●●	-	●	●	-
MUSK							
Ambretone®	-	-	-	●●●	-	-	-
/-Muscone	●	-	-	●●●	-	●	●
Musk T®	-	-	-	●●●	-	-	-
PINE							
Nopol T	-	-	●●	-	●	-	-
Pinene alpha	-	-	●●●	●●●	●	●	-
Pinene beta	-	-	●●●	●	●	●	-
WOODY							
Hindinol®	●	-	●●	●●	●	-	-
Methyl Ionone alpha	-	-	-	○	-	-	-
Methyl Ionone gamma EQ	-	-	-	-	-	-	-
Nopyl Acetate	-	-	●●	●●●	●	-	-
Orbitone® T	-	-	●●	-	●	-	-

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TERMS

Chiraroma®

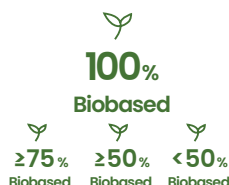
Chiraroma® materials provide the desired optical isomers selectively using Takasago's chiral technology.

The quality, strength and odor of Chiraroma® materials are closer to those found in nature, versus their racemic counterparts, due to their optical purity.

Chiraroma® is also known to have advantages of improved biodegradability, substantivity, safety profile and differentiation in psychophysiological impact.

Sustainable Scent™

Sustainable Scent™ is a category of product that are made from renewable resources, score 100% biobased index and its biodegradability are Readily or Inherently.



Biobased index

Biobased index can reveal if an ingredient is composed of biomass materials, petroleum, or fossil-based materials. This index afforded by ASTM D6866-12, is based on the amount of ¹⁴C.



Biodegradability

Biodegradation is the breakdown of organic matter by microorganisms, such as bacteria and fungi. It is determined according to OECD test method guideline.

Readily: ≥60% within 28 days and from 10 to 60% within 10 days.

Inherently: ≥60% within 60 days.

Partially: 20 to 60% within 60 days.



ISO 16128

ISO 16128 is a guideline that defines the criteria for natural and organic cosmetic ingredients and products. Ingredients that have a score of 50% or more will be listed



Nature Identical

Ingredients that can be found in nature.



High Impact

Ingredients that can be used in small dosage yet have a strong impact.