

Lipobead™ Bronze with Hemp Seed Oil & Lipobead™ Leaf Green with CBD Isolate with CBD Isolate

Connecting Emotions with Trends



Lipobead™ Bronze with Hemp Seed Oil

INCI: Mannitol (and) Cellulose (and) Hydroxypropyl Methylcellulose (and) Cannabis Sativa Seed Oil (and) Mica (and) Iron Oxides (CI 77491) (and) Titanium Dioxide (CI 77891)

CAS #: 69-65-8, 9004-34-6, 7440-44-0, 9004-65-3, 73398-61-5

EC #: 200-711-8, 232-674-9, 231-153-3, N/A, 277-452-2

Lipobead™ Leaf Green with CBD Isolate

INCI: Mannitol (and) Cellulose (and) Hydroxypropyl Methylcellulose (and) Cannabidiol (and) Simmondsia Chinensis (Jojoba) Seed Oil (and) Iron Oxides (CI 77492) (and) Ultramarines (CI 77007)

CAS #: 69-65-8, 9004-34-6, 9004-65-3, 13956-29-1, 61789-91-1 / 90045-98-0, 51274-00-1, 57455-37-5

EC #: 200-711-8, 232-674-9, N/A, N/A, N/A / 289-964-3, 257-098-5, N/A

Recommended applications



Hand Sanitizers



Skin Care Facial Care



Creams & Lotions



Shampoos & Hair Styling Products

Lipobead™ Bronze with Hemp Seed Oil and Lipobead™ Leaf Green with CBD Isolate allow formulators to easily incorporate trendy actives into formulations.

Lipobead™ Bronze with Hemp Seed Oil contains 2% Hemp Seed Oil which is recognized for its emolliency properties in personal care formulations. Our Hemp Seed Oil is sourced responsibly and is globally compliant for use in personal care products. Lipobead™ Bronze with Hemp Seed Oil creates a beautiful visual in your product and delivers the Hemp Seed Oil when rubbed onto the skin.

Lipobead™ Leaf Green with CBD Isolate contains 1% Cannabidiol derived from Industrial Hemp. The CBD Isolate was selected because of its high purity level and it is certified to contain 0% THC, exceeding current regulatory requirements. Each country around the world has different regulations on Cannabidiol and our Regulatory Specialists can assist you with the specific regions that you are considering for a product launch. In addition, the striking leafy green color is achieved without using pigments that contain chromium.

Lipobead™ products are a delivery system technology in which the encapsulated active is dispersed through the polymer matrix. They are delivered as dry granules that will hydrate after 4-6 hours in a formulation containing a minimum of 15% free water. The active ingredient inside each Lipobead™ is released onto the skin when ruptured during application to the skin or in a packaging component.

0% THC

Striking Visual Effect – Calling Attention to Active Ingredient

Full Regulatory Compliance

Easily Incorporate Trending Ingredients into Formulations

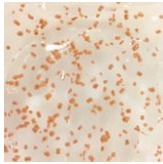
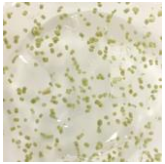


*Lipobead™ Bronze with Hemp Seed Oil

Vantage

Lipobead™ Bronze with Hemp Seed Oil & Lipobead™ Leaf Green with CBD Isolate

Connecting Emotions with Trends

| Typical Properties | Lipobead™ Bronze with Hemp Seed Oil | Lipobead™ Leaf Green with CBD Isolate |
|-----------------------|--|---|
| Size | 700 Microns Avg. | 700 Microns Avg. |
| Color* | Bronze  | Leaf Green – Chromium Free  |
| Recommended Use Level | 1-3% | 1-3% |

*Variations of dry beads are normal. In a particular lot, dry beads may show various degrees of color from white spots to light and dark coloration on the surface. Upon hydration, beads will appear uniform in color.

Formulation Guidelines

Lipobead™ Bronze with Hemp Seed Oil and Lipobead™ Leaf Green with CBD Isolate are very easy to work with when formulating and processing. Some simple, guidelines should be followed to optimize the stability and utility of the final product. Lipobead™ products require approximately 4 to 6 hours to completely hydrate and soften. For complete hydration of the Lipobead™ products, a minimum of 15% free water is required in the formulation.

Lipobead™ products are the most stable at pH levels between 6.5-8.5. Add Lipobead™ products close to room temperature, below 25°C. A rheology modifier with sufficient yield may be necessary to keep the encapsulants suspended.

Industrial Hemp

Industrial Hemp is a highly sustainable and environmentally friendly crop. It can grow in a variety of climate and soil conditions. It grows very close together and therefore naturally outcompetes weeds and it has natural pest resistance. Hemp plants naturally contain very low quantities of THC, the psychoactive compound more prevalent in Marijuana.

Vantage™ has sourced CBD Isolate from the USA and Hemp Seed Oil from China. This CBD powers local, on-demand agriculture and economic development focused on efficient and reliable cultivation of organic hemp and production of cannabinoid products in the USA.

Regulatory Landscape



| Regulatory Compliance May 1, 2020 | Lipobead™ Bronze with Hemp Seed Oil | Lipobead™ Leaf Green with CBD Isolate |
|-----------------------------------|-------------------------------------|---------------------------------------|
| USA | ✓ | ✓ |
| EU | ✓ | |
| Brazil | ✓ | |
| Mexico | ✓ | |
| China | ✓ | |

All data, including the formulations and procedures discussed herein, to the knowledge of Vantage™, are believed to be correct, reliable and accurate. Please note, however, that Vantage™ does not warrant or guarantee any accuracy, reliability or completeness of the information contained herein. It is the user's responsibility to determine the suitability and completeness of such information for the user's particular use (including performing any necessary confirmatory tests). Vantage™ is not responsible or liable for any loss or damage that may occur from the use of this information, nor do we warrant against any patent infringement. Nothing contained herein shall be construed as providing any permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

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Vantage

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