

Certificate of Analysis

Specification Sheet



PRODUCT NAME	BETA-CARYOPHYLLENE
CAS#	87-44-5
COUNTRY OF ORIGIN	INDONESIA

ANALYSIS VALUE	RESULTS
APPEARANCE/COLOR	COLORLESS TO PALE YELLOW, OIL LIQUID
ODOR	CLOVE-LIKE ODOR
PURITY	>95%
SPECIFIC GRAVITY @ 25°C	0.899 – 0.908
REFRACTIVE INDEX @ 20°C	1.498 – 1.504
FLASH POINT	101.1 °C
METHOD OF EXTRACTION	STEAM DISTILLED
SOLUBILITY	OIL SOLUBLE
SHELF LIFE	2 YEARS FROM SHIP DATE

METALS, PESTICIDES, SOLVENTS	VALUES	RESULTS
HEAVY METALS BY ICP-MS	1 CCR 212-3, Part 4-115 (D:4)	CONFORMS
PESTICIDES BY LC-MS/MS	1 CCR 212-3, Part 4-115 (D:5b)	CONFORMS
RESIDUAL SOLVENTS BY HS-GC-MS	1 CCR 212-3, Part 4-115 (D:3)	CONFORMS

MICROBIALS	VALUES	RESULTS
STEC	< 1 cfu/g	CONFORMS
TOTAL YEAST & MOLD	< 10,000 cfu/g	CONFORMS
SALMONELLA	< 1 cfu/g	CONFORMS
A. NIGER	< 1 cfu/g	CONFORMS
A. FUMIGATUS	< 1 cfu/g	CONFORMS
A FLAVUS	< 1 cfu/g	CONFORMS
A. TERREUS	< 1 cfu/g	CONFORMS

STATEMENT SUMMARY	YES/NO
ANIMAL TESTING FREE	YES
BSE / TSE FREE	YES
FOOD GRADE	YES
GLUTEN FREE	YES
GMO FREE	YES
IRRADIATION FREE	YES
PARABEN FREE	YES
PHTHALATES FREE	YES
SLS & SLES FREE	YES

ADDITIONAL PRODUCT INFORMATION

- **Storage Conditions:**
 - Stable when stored in its original container securely tightened. Keep away from heat, open flames, sunlight, combustible materials, and hot surfaces.
 - Store in cool dry place (60° F to 78° F)
 - PROTECT FROM LIGHT
- **Product Use:**
 - Industrial Application
 - GRAS Food Grade & Supplement Manufacturing
 - Topicals
 - Aromas & Flavoring
- **Product Handling:**
 - Ensure good ventilation of the workstation.
 - Wear personal protective equipment including protective gloves, clothing and chemical goggles or safety glasses.
 - Wash hands and other exposed areas with mild soap and water after handling.
- **Product Warnings:**

**Certificate of Analysis Disclaimer**

This Certificate of Analysis does not relieve buyer from acquiring their own third-party tests for assuring product quality. Product should be tested to ensure suitability of application for intended use. Lab Effects, LLC believes the information of conformity contained herein to be true and factual based on the supporting third-party data obtained by and made available to Lab Effects, LLC by third parties. It is the responsibility of buyer to perform its own analysis and investigation prior to use for verifying product suitability and quality according to its own requirements for use. The data provided herein is only true and effective for the specific product lot # listed. Lab Effects responsibility of this manufactured or distributed item will be limited to our Limitation of Product Liability policy.

Taj Ray

Quality Control & Assurance