

## Product Specification

### Cannabigerol Natural Isolate 99 %

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<b>Statutory note to the below mentioned values (chapter 1. and 2.):</b>	All stated values are average and limit values respectively. They are not meant to ensure warranty of characteristics. They come without commitment and are not valid for any claim of warranty and product liability respectively.

#### Table of contents

1 - General information	2
2 - Physical, chemical, microbiological specification	3
3 - Allergens according to Regulation (EU) No. 1169/2011 Annex II	5
4 - Statement about usage of GMO	6
5 - GMO Statement	7
6 – Packing	8

1 - General information

<b>Product Name</b>	Cyrstalline Cannabigerol
<b>IUPAC Name</b>	2-[(2E)-3,7-dimethyl-2,6-octadien-1-yl]-5-pentyl-1,3-benzenediol
<b>Botanical Name</b>	Cannabis Sativa L.
<b>CAS Number</b>	2808-33-5
<b>Product classification</b>	This product is hemp derived crystalline cannabigerol, isolated through CO2 extraction and crystal precipitation.
<b>Plant part extracted</b>	Upper third of the plant
<b>Composition</b>	99 % CBG, THC absent
<b>Country of origin</b>	USA
<b>Ingredients' origin</b>	Industrial hemp derivative



2 - Physical, chemical, microbiological specification

Physical specifications	
Cultivation	Conventional
Origin	USA
Variety	Cannabis sativa L.
Production method	This product is hemp derived crystalline cannabigerol, isolated through CO2 extraction and crystal precipitation.
Appearance	Colourless to light yellow powder or crystals
Consistency	Crystalline / Powder
Storage	Between 15 – 25 °C (59 – 77 °F), tightly closed and protected from light.
Shelf life	24 month from production month.
Use	As far as knowledge goes, MH medical hemp’s Cannabigerol Natural Isolate 99 % fulfils all EU Food Supplement requirements. With regards to CBG, within the EU, there could be regional regulations and legislations in place, with specific requirements for food supplements based on hemp (Cannabis Sativa L.). MH medical hemp GmbH assumes no liability, it is the own responsibility of every customer to check possible additional requirements and the legal status of bringing this premix on the market within a certain country or region.

Technological, Quality Aspects:	
Moisture	< 0,5 %
Herbal waxes	< 2,5 %
Glycerol	< 0,5 %
aw- value	0,51
Solubility	Soluble in alcohols, alkanes, aromatic hydrocarbons, chlorinated solvents. Not soluble in water.
Gluten	< 20 mg/kg
total- THC	< 0.01 %
total- CBG	99 %
Pesticides, Contaminants	In accordance to the Council regulation (EC) No 396/2005 and No 839/2008, (EC) No 1881/2006 and (EU) 165/2010, as well as to (EC) No 834/2007, (EC) No 889/2008
Residual Solvents:	
Class III solvents	< 0,5 %
Hexane	< 290 ppm
Acetone	< 5000 ppm
Pentane	< 5000 ppm
Heavy metals	In accordance to Council regulation (EC) No 1881/2006 and (EC) No 835/2011
Characteristics:	

Naturally free of gluten and allergens

Microbiology:	
Total Viable Count	< 10.000 [cfu/g]
Enterobacteriaceae	< 100 (cfu / 25g)
Escherichia Coli	< 10 (cfu / 25g)
Yeast	< 10.000 [cfu/g]
Moulds	< 10.000 [cfu/g]
Salmonella spp.	Not detectable in 125g

## 3 - Allergens according to Regulation (EU) No. 1169/2011 Annex II

Allergen	Contained in the product (Yes / No)	Cross contamination possible (Yes / No)
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or hybrid strains thereof) and products thereof	No	No
Crustaceans and crustacean products	No	No
Eggs and egg products	No	No
Fish and fish products	No	No
Peanuts and peanut products	No	No
Soy and soy products	No	No
Milk and milk products (including lactose)	No	No
Nuts (i.e. almond, hazelnut, walnut, cashew nut, pecan, Brazil nut, pistachio, macadamia nut and Queensland nut) and products thereof	No	No
Celery and celery products	No	No
Mustard and mustard products	No	No
Sesame seeds and sesame seed products	No	No
Sulfur dioxide and sulfites in concentrations greater than 10 mg/kg or 10 mg/liter, expressed as SO <sub>2</sub>	No	No
Lupine and lupine products	No	No
Molluscs and mollusc products	No	No

4 - Statement about usage of GMO (According to regulation (EG) No 1829 and 1830/2003)

Questionnaire	(Yes / No)
Does the product contain „novel foods” according to the regulation (EC) No 2015/2283?	Yes
Is the product GMO or does it contain GMO?	No
Is product labeling obligated according to common position (EC) No 22/2003?	No
Does the product contain any parts of Bt- corn or of Ready Soy – Components?	No
Does the product contain any parts of other cultivated genetically modified plants (e.g. canola, tomatoes etc.)?	No
Did a genetically modified organism or a derivate of it get involved in the production process (e.g. enzymes)?	No
Does the product contain an ingredient that contains GMO, consists of GMO or was made of GMO? Excluded hereof are parts of GMO (per single ingredient) < 0,9% as long as they were technically unavoidable or occurred coincidentally.	No
Is genetically modified material detectable (DNA or proteins) in the product?	No
What kind of actions are implemented to ensure a complete traceability of all used raw materials and additives related to the absence of GMO and to avoid cross contamination.	Specifications of all suppliers are available
A GMO-Certificate is available for the mentioned product and will be provided on request.	No *
Period of time between conducted GMO-Certificates	-
Recommendation for labeling	None

\* There is no GMO hemp on the world market at the moment.

## 5 - GMO Statement

Herewith we guarantee that the delivered goods do not consist of genetically modified organisms (GMO), contain any GMO and are not produced by GMO or contain ingredients that are produced by GMO, respectively in accordance to the regulation (EC) No 1829/2003 of the European Parliament and Council, dated September the 22., 2003 about genetically modified food and feed as well as in accordance to the regulation (EC) 1830/2003 of the European Parliament and Council, dated September the 22., 2003 about traceability of food and feed produced by GMO as well as to the up dated versions of the guideline 2001/18/EC. This is valid for all used raw materials inclusive all additives and flavours.

Excluded are hereof contaminations with genetically modified materials which are technically unavoidable or happened coincidentally up to a limit of 0,9% (EU certified GMO) and 0,5%, respectively (not EU certified GMO, but approved as save by the EU) in relation to each single ingredient.

In accordance to the Council regulation (EC) No 1829/2003 no labelling is legally obligated.



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6 - Packing

<b>Packaging and volume:</b>	1 to 20 kg - canister - Container PE- HD 0.1 to 1 kg – metal bottle – Inox
<b>Storage conditions:</b>	Cool and dark. Between 15 – 25 °C (59 – 77 °F), tightly closed and protected from light.
<b>MoQ 50 g</b>	Larger quantities will be priced at distributor-level. In case of concrete interest, please let us know.
<b>Usage:</b>	For professional usage only, such as cosmetics, e-liquids and foods.