

Code

Sale specification: SVPF

Version n. 2

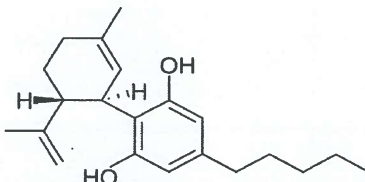
CM5

Cannabis sativa extract 5

Effective date: 11.01.2018  
Discard any previous version

**Commercial name:** Cannabis sativa extract 5  
**Scientific name:** Cannabis sativa L. extract  
**CAS Number:** 89958-21-4  
**Chemical name (cannabidiol):** 2-[(1R, 6R)-6-isopropenyl-3-methyl-2-cyclohexen-1-yl]-5-pentyl-1,3-benzenediol

**Molecular formula (cannabidiol):**



C<sub>21</sub>H<sub>30</sub>O<sub>2</sub>

**Molecular weight (cannabidiol):** 314.5 g/mol  
**Description:** Dark green viscous liquid  
**Storage and packaging:** Preserve in tight container, protected from light, and humidity. Do not store above 25°C. HDPE wide neck drum with screw cap.

<u>Test</u>	<u>Limit</u>	<u>Method</u>
Appearance	Dark green viscous liquid	In-house (visual)
Identification (HPLC)	Complies	In-house
Cannabinoids:		
Sum of CBD and CBDA, expressed as cannabidiol (on as-is basis)	5.0 ± 0.5 %	In-house (HPLC)
Sum of THC and THCA (on as-is basis)	≤ 0.2 %	
Residual solvents:		
Ethanol	Not more than 5000 ppm	In-house (GC)
Water content (KF)	≤ 1.0 %	Ph Eur (2.5.12) current ed.
Microbial contamination:		
Total aerobic microbial count	Not more than 10 <sup>3</sup> cfu/g	Ph Eur (2.6.12) current ed.
Total combined yeast/mould count	Not more than 10 <sup>2</sup> cfu/g	Ph Eur (2.6.12) current ed.
Bile-tolerant Gram-negative bacteria	Not more than 10 <sup>2</sup> cfu/g	Ph Eur (2.6.13) current ed.
Escherichia coli	Absent/10 g	Ph Eur (2.6.13) current ed.
Salmonella	Absent/25 g	Ph Eur (2.6.31) current ed.

**Remarks:** medium chain triglycerides are used as carrier

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Prepared by:  
S. Vincenti/ Regulatory Affairs

 11.01.2018

Approved by:  
G. Tossi / Technical Director

 11.01.18

**Customer's Approval**

We accept all the above specification for the product :

Signed by: .....

Function: .....

Company: .....

Date: .....

Code

Sale specification: SVPF

Version N 1

CBD

Cannabidiol

Effective date: 10.08.2018  
Discard any previous version

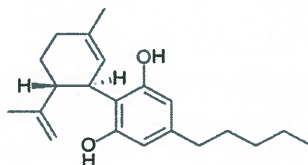
**Trade name:** Cannabidiol

**Scientific name:** Cannabidiol

**CAS number:** 13956-29-1

**Chemical name:** 2-[(1*R*,6*R*)-6-isopropenyl-3-methylcyclohex-2-en-1-yl]-5-pentylbenzene-1,3-diol

**Molecular formula :**



**Molecular weight:** 314.5 g/mol

**Description:** White/off-white or slightly yellow powder

**Storage and packaging:** Preserve in tight container, protected from light and humidity. Do not store above 25°C.  
Double polyethylene, into plastic drums.

Test	Limit	Method
Appearance	White/off-white or slightly yellow powder	In-house (visual)
Identification (HPLC)	Complies	In-house
Identification (IR)	Complies	Ph. Eur. (2.2.24) current ed.
Assay (dried substance)	Between 98.0 % and 102.0 %	In-house (HPLC)
Related substances:		In-house (HPLC)
<i>Total THC (sum of Δ8-THC and Δ9-THC)</i>	Not more than 0.10%	
<i>CBDV</i>	Not more than 0.5%	
<i>CBD-C4</i>	Not more than 0.5%	
<i>Other related substances (each)</i>	Not more than 0.10%	
<i>Related substances (total)</i>	Not more than 1.0%	
Melting point	Between 65°C and 69°C	Ph. Eur. (2.2.14) current ed.
Water content	Not more than 1.0%	Ph. Eur. (2.5.12) current ed.
Sulphated Ash	Not more than 0.1%	Ph. Eur. (2.4.14) current ed.
Specific Optical Rotation (on dried substance)	Between -135.0 and -125.0	In-house
Residual solvents		In-house (GC)
<i>Ethanol</i>	Not more than 5000 ppm	
<i>Hexane</i>	Not more than 290 ppm	
Microbiology		
<i>Total aerobic microbial count</i>	Not more than 10 <sup>3</sup> CFU/g	Ph. Eur. (2.6.12) current ed.
<i>Total combined yeast/mould count</i>	Not more than 10 <sup>2</sup> CFU/g	Ph. Eur. (2.6.12) current ed.
<i>Bile-tolerant Gram-negative bacteria</i>	Not more than 10 <sup>2</sup> CFU/g	Ph. Eur. (2.6.13) current ed.
<i>Escherichia coli</i>	Absent/10g	Ph. Eur. (2.6.13) current ed.
<i>Salmonella</i>	Absent/25g	Ph. Eur. (2.6.31) current ed.

Code

Sale specification: SVPF

Version N 1

CBD

Cannabidiol

Effective date: 10.08.2018  
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Remarks:

Prepared by:  
D. Maradei / QA Manager

Approved by:  
G.Tossi / Technical Director

*[Signature]* 08.08.2018  
*[Signature]* 08.08.18

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