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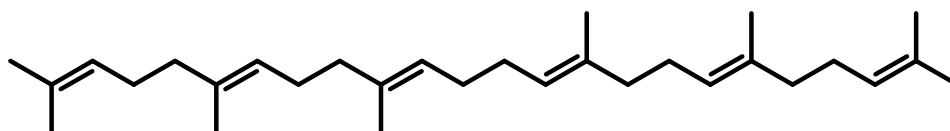
Product Specifications

PhytoSquene® [olive oil-derived Squalene]

CAS 111-02-4
EINECS 203-826-1

Syn: (all-E)-2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene
Grade: Pharmaceutical: cGMP; non-cGMP is also available.

Structure:



Mol. Formula
Source

$C_{30}H_{50}$
Olive oil

Mol. Wt.

410.7

<i>Test</i>	<i>Specification</i>
Identity	IR, GC
Appearance	Clear, <u>colorless</u> , odorless liquid
APHA	< 20
Assay (glpc)	
Squalene	> 97% (by area)
Total Squalenes	> 98% (by w/w)
Saponification value	≤ 5 mg/g
Acid value	≤ 0.5 mg KOH/Kg
Peroxide value	≤ 5 meq/Kg
Iodine value	360 – 380 g/100 g
Water (K-F)	< 0.1%
RI, $\eta_D^{20\text{ }^\circ\text{C}}$	1.492 - 1.498
$d_{25\text{ }^\circ\text{C}}$	0.858 g/mL
Heavy metals	< 10 ppm

- cont'd -

- cont'd -

<i>Test</i>	<i>Specification</i>
Residual Solvents	EP 01/2008: 50400 (CPMP/ICH/238)/95
Pesticides Residue	USP/EP
Dioxin and PCBs	< 6153 pg/g
<i>Microbiological Specification</i>	
Standard Plate Content	≤ 50 CFU/ml
Mold and Yeast	≤ 50 CFU/ml

Storage: PhytoSquene® is light- and air-sensitive and should be handled accordingly. Containment under nitrogen and at or below 8°C is recommended.

Non-GMO: This product is derived from a non-GMO vegetal source as designated under EP regulations 1829/2003 and 1830/2003.

TSE/BSE: This product is derived from pure olive oil. During production, storage and transport, all contact with any material of animal origin was excluded. Therefore, the requirements set forth in *Ph. Eur. 5.2.8* do not apply.