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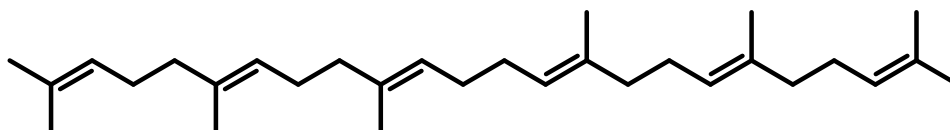
Product Specifications

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-tetraco-sahexaene
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% (<i>absolute</i>) > 98% (<i>relative</i>)
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, $\eta_D^{20^\circ C}$	1.492 - 1.498
Heavy metals	< 10 ppm

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- cont'd -

<i>Test</i>	<i>Specification</i>
Residual Solvents	EP 6.0:5.4, (CPMP/ICH/238)95
Pesticides Residue	
Total DDT	< 1 ppm
Organophosphorus	0.05 mg/Kg
Others	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.

Shelf-life: Two years in original, unopened container, when stored as 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: The source of this product is pure olive oil. During production, storage and transport, all contact with any material of animal origin was excluded. Therefore, the requirements set forth in of the EP Comm. Directive 1999/82/EEC, CPMP/BWP/1230/98, and Ph. Eur. Suppl. 2000:5.2.8 do not apply.