

# Vitamin D3 Oil (Cholecalciferol)

<b>INCI name</b>	-
<b>Trade name</b>	Vitamin D3 Oil
<b>Molecular weight</b>	384,64
<b>Molecular formula</b>	$C_{27}H_{44}O$
<b>Cas-No.:</b>	67-97-0
<b>Synonym:</b>	Calciol Cholecalciferol
<b>Application</b>	cosmetics, nutrition supplement
<b>Packaging</b>	bottle
<b>Filling quantity</b>	1 kg/bottle 5 kg/bottle special packaging and smaller fillings quantity on request
<b>Shelf life</b>	up to 2 years, not opened
<b>Storage conditions</b>	dry and cool avoid direct sunlight and heat



## Product Specification

# Vitamin D3 Oil (Cholecalciferol)

Test	(USP)	Specification	Batch S0720210929m
Appearance		clear pale yellow to yellow oily liquid	clear yellow oily liquid
Identification		the retention time of the main peak of the test solution should be consistent with the retention time of the main peak of the reference solution (HPLC)	meet the requirements
Assay		≥ 1.000.000 IU/g	1.045.000 IU/g
Acid value (as KOH)		≤ 2 mg/kg	< 0,003 mg/kg
Peroxide		≤ 7,5 (mmol/kg)	< 7,5 mmol/kg
Heavy metal		≤ 10 ppm	< 10 ppm
Lead (Pb)		≤ 2 ppm	< 0,05 ppm
Arsenic (As)		≤ 2 ppm	< 0,01 ppm
Cadmium (Cd)		≤ 1 ppm	< 1,0 ppm
Mercury (Hg)		≤ 0,1 ppm	< 0,1 ppm
<b>Microbiological tests</b>			
Total plate count		≤ 1000 cfu/g	< 100 cfu/g
Yeast & Mold		≤ 100 cfu/g	< 10 cfu/g
Enterobacterial		≤ 10 MPN/g	< 10 MPN/g
Salmonella		n.d./25g	conforms
Escherichia coli		n.d./10g	conforms
Staphylococcus aureus		n.d./10g	conforms
Pseudomonas aeruginosa		n.d./10g	conforms

