# **CERTIFICATE OF ANALYSIS**

Test	Specification	Reference Method	Results
Appearance	Clear, pale yellow oil solution	Visual	Clear, pale yellow oil solution
ldentification	To match MK-7 reference standard profile	HPLC/USP38-NF33 MK-7 Preparation	Conforms
Total all-trans vitamin K2 MK-7	>5.00 %	HPLC/USP38-NF33 MK-7 preparation	5.12 %
Lead (Pb)	<3.0 μg/g	ICP-MS/ICP-OES, USP 233 or equivalent	<0.02 µg/g
Cadmium (Cd)	<1.0 μg/g	ICP-MS/ICP-OES, USP 233 or equivalent	<0.004 µg/g
Mercury (Hg)	<0.1 μg/g	ICP-MS/ICP-OES, USP 233 or equivalent	<0.01 μg/g
Arsenic (As)	<2.0 μg/g	ICP-MS/ICP-OES, USP 233 or equivalent	<0.01 µg/g
Total plate count	<10 <sup>3</sup> cfu/g	USP 2021/Ph. Eur. 2.6.12 or equivalent	<10 cfu/g
Total Moulds and yeasts	<10 <sup>2</sup> cfu/g	USP 2021/Ph. Eur. 2.6.12 or equivalent	<10 cfu/g
E. coli	Absent in 1 g	USP 2022/Ph. Eur. 2.6.13 or equivalent	Absent in 1 g
Staphylococcus aureus	Absent in 1 g	USP 2022/Ph. Eur. 2.6.13 or equivalent	Absent in 1 g
Salmonella sp.	Absent in 10 g	USP 2022/Ph. Eur. 2.6.13 or equivalent	Absent in 10 g
Bile-tolerant gram-negative bacteria*	$\leq 10^2  \text{cfu/g}$	USP <62> or equivalent	<10 cfu/g

<sup>\*</sup>includes members of the family Enterobacteriaceae, Pseudomonads and Aeromonas



**GBA**GROUP FOOD

GBA Gesellschaft für Bioanalytik mbH · Goldtschmidtstr. 5 · 21073 Hamburg

Sunday Natural Products GmbH Potsdamer Str. 81c, Gebäude H 10785 Berlin







Ihr Ansprechpartner: Lennart Kühn Tel. +49 (0)40 797172-787 L.Kuehn@gba-group.de

25.04.2019

#### Konformitätsbescheinigung

Firma: Sunday Natural Products GmbH

Potsdamer Str. 81c, 10785 Berlin

Produkt: Vitamin D3 + K2 MK7 2500 IE + 100µg all trans 300 Tropfen VEGAN

(SKU 3945)

Batch Nr. L02925

Prüfbericht 19014441-004

Der auf der Flasche angegebene Gesamtgehalt an Vitamin D3 wird ausweislich des Ergebnisses der durchgeführten Untersuchung im Rahmen der Messunsicherheit der Methodik zum Zeitpunkt der Analyse eingehalten.

Hamburg, den 25.04.2019

(Staatl. gepr. Lebensmittelchemiker / Kundenbetreuung)

## **Certificate of Analysis**

Details: Plant-source Vitamin D3 (Cholecalciferol) 1,000,000iu/g Oil.

Suitable for Vegetarians: Yes Suitable for Vegans: Yes

Test Specificatio	n Result
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Appearance:Transparent oily liquidConformsColour:YellowConformsOdour:CharacteristicConformsIdentification:PositiveConformsPeroxide Value:< 10 Meg/kg</th>1.3 Meg/kg

**Assay:** 900,000 iu/g – 1,100,000 iu/g 1,005,245iu /g

 Heavy Metals:
 Max. 3 ppm
 0.1 ppm

 Lead (Pb):
 Max. 0.5 ppm
 0.01 ppm

 Cadmium (Cd):
 Max. 0.1 ppm
 0.01 ppm

 Arsenic (As):
 Max. 0.5 ppm
 0.01 ppm

 Mercury (Hg):
 Max. 0.1 ppm
 <0.01 ppm</td>

Chromium (Cr): Max. 0.1 ppm <0.01 ppm

Total Viable Count (TVC):Max.3,000 cfu/g<10cfu/g</th>Yeasts & moulds:Max. 300 cfu/g<10cfu/g</th>E.Coli:NegativeConformsSalmonella:NegativeConformsStaphylococus Aureus:NegativeConforms

Staphylococus Aureus:NegativeConformsColiforms:NegativeConforms

GMO Status:Non-GMONon-GMOIrradiation Status:Non-irradiatedNon-irradiatedTSE/BSE Status:TSE/BSE freeTSE/BSE free

#### **CERTIFICATE OF ANALYSIS**

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Web:www.synthetica.no

Org. no. NO 882 512 142

### CoA K2 content in Sunday- Vitamin K2 drops

**Objective:** Analysis of K2 (all-trans MK-7) content and isomeric purity

Date of analysis: 25.03.2019

Analysis Method: <u>USP41 Menaguinone-7; Content of Menaguinone-7 Method2</u>

The amount of K2 (MK-7) in the material is determined by HPLC (qualified instrument Agilent 1260), with UV detection at 268 nm, using external standard calibration method. MK-7 is released from the

matrix by adding THF and EtOH to the product (drops).

USP41 Menaquinone-7; Isomeric purity

Determination of MK-7 isomeric purity by HPLC. The all-trans MK-7 isomer is quantified as % area of the total MK-7 peak area in the

chromatogram.

#### Sample/Result:

Sample			
Marketer	Sunday		
Product name	Vitamin D3 + K2 MK7 2500 IE + 100μg all trans 300 Tropfen VEGAN		
Batch no.	3945 (L02925)		
Amalysis	Label daim 1/2 (all trans NAV 7 (itam)	Dogult	
Analysis	Label claim K2 (all-trans MK-7/item)	Result	
K2 (all-trans MK-7) content	100 μg/drop	Complies	

Drop weight of 28 mg/drop used in the calculation (provided by manufacturer)

The investigation has shown that the product Vitamin D3 + K2 MK7 2500 IE + 100µg all trans 300 Tropfen VEGAN/batch 3945 (L02925), with respect to content of vitamin K2 MK-7 all-trans, meets the product specifications given on the label.

Telephone: +47 99699120

E-mail:

Info@synthetica.no