## **Certificate of Analysis**

Product Name: D<sub>3</sub> 1.0 miu/gm MCT Oil

TEST	METHOD	STANDARD	RESULT
Assay Vitamin D <sub>3</sub> , IU/gm	J. Chromatogr. A870(2000)207-15 & Dionex Tech Note 89	1,000,000	1,080,000
Acid Value Mg KOH/gm	AOCS Ca 5a-40 AOAC 983.23	≤2.0	1.06
Micro			
Aerobic Plate Count, cfu/g	USP<2021>	<1,000	<10
Coliforms, cfu/g	USP<2021>	<100	<10
Yeasts & molds, cfu/g	USP<2021>	<100	<10
E. coli, cfu/g	USP<2022>	Negative (<10)	ABSENT
Staphylococcus aureus, cfu/g	USP<2022>	Negative (<10)	ABSENT
Salmonella, cfu/g	USP<2022>	Negative	ABSENT
Heavy Metals			
Arsenic, ppm	AOAC 993.14	<1.5	ND
Cadmium, ppm	AOAC 993.14	<0.3	ND
Lead, ppm	AOAC 993.14	<1.0	ND
Mercury, ppm	DMA	<0.2	0.001

<sup>\*</sup> Indicates an estimate due to low plate counts

# **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



GBAGROUP 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

16.04.2019

### Konformitätsbescheinigung

Firma:

Sunday Natural Products GmbH

Potsdamer Str. 81c, 10785 Berlin

**Produkt:** 

Vitamin D3 + K2 MK7 2500 IE + 100µg all trans 300 Tropfen (SKU 3944)

Batch Nr. L02901

Prüfbericht 19014441-005b ersetzt 19014441-005

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 16.04.2019

i. A. L. Kühn

(Staatl. gepr. Lebensmittelchemiker / Kundenbetreuung)



#### **CERTIFICATE OF ANALYSIS**

AN\_SYN\_19\_109\_6 Sample ID SAM19-14 Page 1 of 1 Version 1

### 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		
Batch no.	3944 (L02901)		
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/batch 3944 (L02901), with respect to content of vitamin K2 MK-7 all-*trans*, meets the product specifications given on the label.

Prepared by:
······································
Solveig Nordstrand/08.05.2019
Senior Research Scientist