



PLENUM
Dr. Born

PLENUM, Lindenstr.8, D-58256 Ennepetal

Nature Vital GmbH & Co KG
Kleine Hainstraße 12
D- 63450 Hanau

Ihr Gesprächspartner
Dr. Markus Born
Tel.: 02333-608460
Fax 02333-608461
Ennepetal, den 12.08.2024

Analysenresultate:

Analysennummer: NAVI/12/08/24-B

Analyse- Schwermetalle und mikrobiologisches Profil

Probenbezeichnung: Coenzym Q10-Kapseln Charge: 20240730851
(Gewicht- Kapsel: 593 mg; Mittelwert aus 10 Kapseln)

Schwermetalle:*

Blei: < 3,0 mg/kg
Arsen: < 1,0 mg/kg
Cadmium: < 0,5 mg/kg
Quecksilber: < 0,1 mg/kg

* in Anlehnung an DIN EN 15763 : 2010-04 und DIN EN 13806 : 2002-11

Mikrobiologische Untersuchungen:**

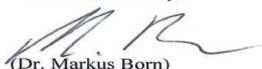
Aerobe mesophile Koloniezahl <1,0x10³ KbE/g
Hefen/Schimmelpilze <1,0x10² KbE/g
Enterobacteriaceae <1,0x10² KbE/g
Salmonella negativ
E.Coli negativ

** in Anlehnung an DIN EN ISO 4833-1: 2013-12, ISO 6611:2004-10 (mod.), ISO 21528-2:2017-06, ISO 6579-1:2017-02, DIN ISO 16649-2:2009-12

Befund:

Bezüglich der durchgeführten Untersuchungen ist obiges Produkt nicht zu beanstanden

Head of Laboratory:



(Dr. Markus Born)

Die Prüfergebnisse beziehen sich ausschließlich auf die zur Verfügung gestellten Proben. Die Weitergabe des Analysenprotokolls und dessen Verwendung zu Werbezwecken bedarf unserer schriftlichen Genehmigung.



| 1. Technical Data Sheet | | | |
|---|---|--|----------|
| Chemical Name | Ubiquinone | | |
| CAS number | 303-98-0 | | |
| Molecular weight | 863.343 | | |
| Molecular Formula | C59H90O4 | | |
| Compliance (Food / Pharmacopoeia / FCC / Feed) | Food / Pharmacopoeia / Cosmetic | | |
| Source (animal, plant, mineral, petrochemical) | Bacteria | | |
| Brief introduction: | | | |
| Coenzyme Q10, also known as ubiquinone, is a coenzyme family that is ubiquitous in animals and most bacteria (hence the name ubiquinone). In humans, the most common form is coenzyme Q10 or ubiquinone-10, as a dietary supplement and is an ingredient in some cosmetics and pharmaceutical industry. | | | |
| The biggest application of Coenzyme Q10 is in cardiovascular products, the ingredient is in yellow to orange crystalline powder, no less than 98.0% and not more than 101.0% of C59H90O4 calculated on the anhydrous basis. | | | |
| Item | Standard | Testing Result | |
| Appearance & Solubility | | | |
| Appearance | Yellow to orange crystalline powder | Conforms | |
| Solubility | Soluble in ether, very slightly soluble in dehydrated alcohol; practically insoluble in water | Conforms | |
| Particle Size | 90% pass through 80 mesh | Conforms | |
| Typical Analysis | | | |
| Identification | IR | IR spectrum of the test specimen should be consistent with the IR spectrum of reference standard | Conforms |
| | Color Reaction | Blue Color Reaction | Conforms |
| Assay | 98.0~ 101.0% | 99.5% | |
| Melting Point | 48°C ~ 52°C | Conforms | |
| Loss on Drying | ≤0.2% | 0.10% | |
| Residue on Ignition | ≤0.1% | 0.04% | |
| Chromatographic Purity | Related Impurity | ≤1.0% | 0.74% |

Persönlich haftende Gesellschafterin:

Euro Business GF GmbH - **Sitz:** Hanau

Amtsgericht: Hanau - HRB 99003

Geschäftsführer: Ralf Antzenberger

Ust. Ident-Nr. DE 299561803

Fon

+49 6181 / 6107905

E-Mail

info@navip.de

Web

www.nature-vital.com

Eingetragen im Handelsregister des

Amtsgericht

Hanau HRA 93314



DE-ÖKO-007

| | | | |
|--------------------------------------|-------------------------------|----------|--------------|
| | Isomer and related impurities | ≤0.5% | 0.20% |
| | Total impurities (Test 1 & 2) | ≤1.5% | 0.94% |
| Residual Solvent | Ethanol | ≤5000ppm | conforms |
| | Ethyl Acetate | ≤5000ppm | |
| | n-Hexane | ≤290ppm | |
| | n-Heptane | ≤5000ppm | |
| Heavy metals | | | |
| Total Heavy Metals | ≤10 ppm | | conforms |
| Lead | ≤0.5 ppm | | conforms |
| Arsenic | ≤1.0 ppm | | conforms |
| Cadmium | ≤0.5 ppm | | conforms |
| Mercury | ≤0.1 ppm | | conforms |
| Microorganism | | | |
| Aerobic bacterial count | ≤1,000 cfu/g | | 40cfu/g |
| Total Molds & Yeasts | ≤50 cfu/g | | 7cfu/g |
| Bile-tolerant gram negative bacteria | ≤10 MPN/g | | conforms |
| E.Coli | Negative/10g | | Not detected |
| Salmonella | Negative/25g | | Not detected |
| Pseudomonas aeruginos | Negative/10g | | Not detected |
| Staphylococcus aureus | Negative/25g | | Not detected |

Persönlich haftende Gesellschafterin:

Euro Business GF GmbH - **Sitz:** Hanau

Amtsgericht: Hanau - HRB 99003

Geschäftsführer: Ralf Antzenberger

Ust. Ident-Nr. DE 299561803

Fon

+49 6181 / 6107905

E-Mail

info@navip.de

Web

www.nature-vital.com

Eingetragen im Handelsregister des

Amtsgericht

Hanau HRA 93314



DE-ÖKO-007