NutraNorth

# CERTIFICATE OF ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| **Manufactured for** | **MACKISEN** | | | | |
| **Name of product:** | **COQ10** | | | **NPN** | **80132441** |
| **Packaging Lot # :** | **M2500472/1** | **Master Packaging Record #** | | **Expiry Date :** | **07/2028** |
| | | **MPR** | **MA-N441-90-V0** | | |
| **Manufacturing Lot # :** | **M2500472** | **Master Manufacturing Record #:** | | **MFG Date:** | **08/2025** |
| | | **MMR** | **MA-N441-V0** | | |
| **Storage Conditions:** | Store at room temperature ( R.T ), in closed dry containers and Keep away from high temperature & moisture. | | | | |
| **Physical Description:** | Yellow to orange color powder in clear Veggie "2" capsules. | | 90 count in Bottle-150 cc-38/400 White HDPE Round with Cap-38-400 white HIS P/P,ribbed, plain liner. | | |

**Physical Tests:**

| TESTES | Results | Specifications Low | Target | High | Strength | Method |
|---|---|---|---|---|---|---|
| Average Wt. of Capsules | 354 mg | 320 | 355 | 391 | mg | USP <2091> |
| Wt. variation of Capsules | Conforms | Conforms as per USP weight variation +/- 10 % | | | | USP <2091> |
| Odour & Taste | Conforms | Characteristic, Conforms to Standard | | | | Visual, Olfactory |
| Disintegration | 05 mins | NMT 30 | | | min | USP <2040> |
| **IDENTITY** | Conforms | Conforms to standard | | | | FTIR |
| **By Qualitative Analysis** | **Results** | **Low** | **Target** | **High** | **Strength** | **Method** |
| CoQ10 (Rhadobacter sphaeroides) | 98.50 mg | 80.00 | 100.00 | 120.00 | mg | HPLC-UV |
| **NON-MEDICINAL INGREDIENTS** | Rice flour, Empty Clear Vegetable Capsule | | | | | |

**Purity:**

| MICRO: | Results | Limits | Method |
|---|---|---|---|
| Total Plate Count | 13,000 CFU/g | < 100,000 c.f.u / g | USP <2021/2022> |
| Total Yeast | <10 CFU/g | < 10,000 c.f.u / g | USP <2021/2022> |
| Total Mold | 10 CFU/g | < 10,000 c.f.u / g | USP <2021/2022> |
| E.Coli | Not Detected | Not Detected | USP <2021/2022> |
| Salmonella Spp | Not Detected | Not Detected | USP <2021/2022> |
| Staphylococcus Aureus | Not Detected | Not Detected | USP <2021/2022> |
| **HEAVY METALS:** | **Results** | **Limits - 3 capsules / day** | **Method** |
| Arsenic | 0.0177 mcg / kg b.w./day | < 0.14 mcg / kg b.w./day | ICP-MS |
| Cadmium | 0.0026 mcg / kg b.w./day | < 0.09 mcg / kg b.w./day | ICP-MS |
| Lead | 0.0092 mcg / kg b.w./day | < 0.14 mcg / kg b.w./day | ICP-MS |
| Total Mercury | 0.0003 mcg / kg b.w./day | < 0.29 mcg / kg b.w./day | ICP-MS |

**Prepared by:** M.Pradeep NOV/10/2025

**Approved by:** B.Sharavan Nov/10/2025

**Quality Assurance**

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# CERTIFICATE OF ANALYSIS

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|---|---|---|---|---|---|
| **Manufactured for** | **MACKISEN** | | | | |
| **Name of product:** | **COQ10** | | | **NPN** | **80132441** |
| **Packaging Lot # :** | **M2500472/2** | **Master Packaging Record #** | | **Expiry Date :** | **07/2028** |
| | | **MPR** | **MA-N441-180-V0** | | |
| **Manufacturing Lot # :** | **M2500472** | **Master Manufacturing Record #:** | | **MFG Date:** | **08/2025** |
| | | **MMR** | **MA-N441-V0** | | |
| **Storage Conditions:** | Store at room temperature ( R.T ), in closed dry containers and Keep away from high temperature & moisture. | | | | |
| **Physical Description:** | Yellow to orange color powder in clear Veggie "2" capsules. | | 180 count in Bottle-250 cc-45/400 White HDPE Round with Cap-45-400 white HIS P/P,ribbed, plain liner. | | |

**Physical Tests:**

| TESTES | Results | Specifications Low | Target | High | Strength | Method |
|---|---|---|---|---|---|---|
| Average Wt. of Capsules | 354 mg | 320 | 355 | 391 | mg | USP <2091> |
| Wt. variation of Capsules | Conforms | Conforms as per USP weight variation +/- 10 % | | | | USP <2091> |
| Odour & Taste | Conforms | Characteristic, Conforms to Standard | | | | Visual, Olfactory |
| Disintegration | 05 mins | NMT 30 | | | min | USP <2040> |
| **IDENTITY** | Conforms | Conforms to standard | | | | FTIR |
| **By Qualitative Analysis** | **Results** | **Low** | **Target** | **High** | **Strength** | **Method** |
| CoQ10 (Rhadobacter sphaeroides) | 98.50 mg | 80.00 | 100.00 | 120.00 | mg | HPLC-UV |
| **NON-MEDICINAL INGREDIENTS** | Rice flour, Empty Clear Vegetable Capsule | | | | | |

**Purity:**

| MICRO: | Results | Limits | Method |
|---|---|---|---|
| Total Plate Count | Conforms | < 100,000 c.f.u / g | USP <2021/2022> |
| Total Yeast | <10 CFU/g | < 10,000 c.f.u / g | USP <2021/2022> |
| Total Mold | 10 CFU/g | < 10,000 c.f.u / g | USP <2021/2022> |
| E.Coli | Not Detected | Not Detected | USP <2021/2022> |
| Salmonella Spp | Not Detected | Not Detected | USP <2021/2022> |
| Staphylococcus Aureus | Not Detected | Not Detected | USP <2021/2022> |
| **HEAVY METALS:** | **Results** | **Limits - 3 capsules / day** | **Method** |
| Arsenic | 0.0177 mcg / kg b.w./day | < 0.14 mcg / kg b.w./day | ICP-MS |
| Cadmium | 0.0026 mcg / kg b.w./day | < 0.09 mcg / kg b.w./day | ICP-MS |
| Lead | 0.0092 mcg / kg b.w./day | < 0.14 mcg / kg b.w./day | ICP-MS |
| Total Mercury | 0.0003 mcg / kg b.w./day | < 0.29 mcg / kg b.w./day | ICP-MS |
| **SOLVENT RESIDUES :** | Complies | Meets USP requirements | USP/GC |

**Prepared by:** M.Pradeep NOV/10/2025

**Approved by:** B.Bhargavi Nov/10/2025

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