

# Certificate of Analysis

Report Issued To: Nootropics Depot | 8380 S. Kyrene Rd., Suite 110, Tempe, AZ 85284

| Product Information |                                                               |                   |                |
|---------------------|---------------------------------------------------------------|-------------------|----------------|
| Product Name:       | OptiNAD+   Optimized Nicotinamide Adenine Dinucleotide        | CoA #:            | ND-24-967      |
| Product Size:       | 60 count                                                      | Lot Number:       | OPNCS1013024   |
| Production Date:    | 01/30/2024                                                    | Capsule Batch #:  | OPNCSLL1023AR  |
| Report Date:        | 01/30/2024                                                    | Capsule Material: | Acid Resistant |
| Best By Date:       | 01/2026                                                       | Capsule Size      | Size 00        |
| Appearance:         | Yellow powder in a clear Capsule                              | Capsule Color:    | Clear          |
| Other Ingredients:  | Microcrystalline Cellulose 101, Silicon Dioxide, Stearic acid |                   |                |

## Organoleptic Testing Results:

| Test  | Specification    | Result   | Pass/Fail |
|-------|------------------|----------|-----------|
| Color | Org. Tube # 2067 | Conforms | Pass      |
| Smell | Org. Tube # 2067 | Conforms | Pass      |

## Physical Testing Results:

| Test                | Specification     | Result          | Pass/Fail |
|---------------------|-------------------|-----------------|-----------|
| Capsule Fill Weight | ≥705mg/capsule    | 709mg/capsule   | Pass      |
| Capsule Mass Test   | USP <2091> Test 1 | 834.5mg/capsule | Pass      |

## Ingredients

| Ingredient Name                 | Content       | Raw Material Batch # | Raw Material Spec # |
|---------------------------------|---------------|----------------------|---------------------|
| Apigenin                        | 25mg/capsule  | APN0570723           | 284_v1              |
| Nicotinamide Mononucleotide     | 100mg/capsule | NMN0250923A          | 201_v4              |
| NADH                            | 5mg/capsule   | NADH0090123          | 299_v2              |
| Trimethyl Glycine - Betaine HCl | 250mg/capsule | BET0090423           | 298_v2              |
| Nicotinamide Riboside           | 100mg/capsule | NMR0250922           | 288                 |
| Quercetin                       | 125mg/capsule | QRG0140423           | 272_v2              |

## Analytical Testing

| Test                                                                  | Method                                               | Methodology | Specification                  | Result                         | Pass/Fail |
|-----------------------------------------------------------------------|------------------------------------------------------|-------------|--------------------------------|--------------------------------|-----------|
| Identity Apigenin ( <i>Citrus aurantium</i> , Fruit)                  | LAB TM-001                                           | FTIR        | Matches to Reference Material  | Conforms                       | Pass      |
| Identity - Nicotinamide mononucleotide (NMN)                          | LAB TM-001                                           | FTIR        | ≥95%                           | 98% Match                      | Pass      |
| Identity NADH                                                         | LAB TM-001                                           | FTIR        | ≥95%                           | Conforms to Reference Standard | Pass      |
| Identity Betaine HCl                                                  | LAB TM-001                                           | FTIR        | ≥95%                           | 100% Match                     | Pass      |
| Identity Nicotinamide Riboside                                        | LAB TM-001                                           | FTIR        | ≥95%                           | New Entry                      | Pass      |
| Identity Quercetin                                                    | LAB TM-001                                           | FTIR        | Conforms to Reference Standard | Conforms                       | Pass      |
| Assay - Apigenin (dry basis)                                          | LAB TM-190                                           | LC-MS       | ≥ 25mg/capsule                 | 26.8mg/capsule                 | Pass      |
| Assay - NMN (Dry Basis)                                               | LAB TM-118                                           | UV-Vis      | ≥ 100mg/capsule                | 109mg/capsule                  | Pass      |
| Assay - β-nicotinamide adenine dinucleotide disodium salt (dry basis) | TM0041                                               | HPLC        | ≥5mg/capsule                   | 5.5mg/capsule                  | Pass      |
| Assay - sodium                                                        | ICP-MS Metals - USP <730> Apex Metals-011/Metals-008 | ICP/ICPMS   | ≥0.33mg/capsule                | 0.36mg/capsule                 | Pass      |
| Assay - Betaine HCl (as is basis)                                     | TM0050/HPLC                                          | HPLC        | ≥ 250mg/capsule                | 254.4mg/capsule                | Pass      |
| Assay - Nicotinamide Riboside (as is)                                 | TM0042                                               | HPLC        | ≥ 100mg/capsule                | 101.1mg/capsule                | Pass      |

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| Test                           | Method                                                     | Methodology    | Specification  | Result                                                       | Pass/Fail |
|--------------------------------|------------------------------------------------------------|----------------|----------------|--------------------------------------------------------------|-----------|
| Assay -Quercetin (as is basis) | LAB TM-120                                                 | UPLC           | ≥125mg/capsule | 138mg/capsule                                                | Pass      |
| Heavy Metals                   | ICP-MS Metals - USP <233>/<730> Apex Metals-011/Metals-008 | ICP/ICPMS      | < 0.5 ppm ea.  | As 0.124 ppm<br>Cd 0.049 ppm<br>Hg 0.013 ppm<br>Pb 0.045 ppm | Pass      |
| Water Activity                 | LAB TM-012                                                 | Water Activity | < 0.73         | 0.22                                                         | Pass      |

Final Approval

*Kennedi Enoch*

Kennedi Enoch, Quality Liaison

