



Bulk Naturals Wholesale LLC

bulknaturalswholesale.com

212 N Jefferson Unit 12A Ava, Mo 65608, USA/Phone: 1-573-465-0612

BURDOCK ROOT (4:1) BOTANICAL EXTRACT

CERTIFICATE OF ANALYSIS

LOT: BN220825/BE

Manufacture Date: August 25, 2022

Expiration Date: August 24, 2025

QA Signature: Steven Konert

| Specification | Parameter | Result | Method |
|---------------------------------|----------------------------|--------------|--------------------------------|
| Content | Polysaccharide $\geq 30\%$ | 34.25% | UV USP<857> |
| Identification | Correspond to standard | Conform | TLC USP<201> |
| PHYSICAL CHARACTERISTICS | | | |
| Particle Size | NLT 95% Through 80 mesh | 99.16% | Analytical sieving USP <786> |
| Loss on Drying | NMT 5.0% | 2.36% | USP <731> |
| Total Ash | NMT 5.0% | 2.58% | USP <561> |
| Bulk Density | Between 40-70g/100ml | 53.70g/100ml | USP <616> Method 1 |
| Tapped Density | Between 50-90g/100ml | 83.90g/100ml | USP <616> Method 1 |
| CHEMICAL CHARACTERISTICS | | | |
| Heavy Metals (as Pb) | NMT 10 ppm | Conform | USP <231> Method II |
| Arsenic (As) | NMT 2 ppm | 0.2213ppm | ICP-MS II USP <233> |
| Lead (Pb) | NMT 2 ppm | 0.1982ppm | ICP-MS II USP <233> |
| Cadmium (Cd) | NMT 1 ppm | 0.0201ppm | ICP-MS II USP <233> |
| Mercury (Hg) | NMT 1 ppm | 0.0019ppm | ICP-MS II USP <233> |
| MICROBIOLOGICAL CHARACTERISTICS | | | |
| Total Plate Count | NMT 10,000 cfu/ | 300cfu/g | USP<61> |
| Total Yeast & Mold | NMT 1,000 cfu/g | < 100cfu/g | USP<61> |
| E.Coli | Not Detected in(g) 10 | Not Detected | USP<62> |
| Salmonella | Not Detected in(g) 25 | Not Detected | USP<62> |
| Staphylococcus | Not Detected in(g) 10 | Not Detected | USP<62> |

Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Containers that have been opened should be tested at least yearly to ensure potency. Although Bulk Naturals Wholesale LLC. believes the above information to be accurate based on the information available to Bulk Naturals, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to using to verify that the product purchased from Bulk Naturals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material are subject to Bulk Naturals Wholesale LLC. standard terms and conditions, which supersede any conflicting terms contained on the Buyer's purchase order or any document or instrument supplied by the Buyer.