



## Certificate of Analysis

**Product Name:** Pine Bark Extract 95%

**Botanical Name:** Pinus Pinaster

**Lot #** BPCPB9552025

**Best Before:** May 2028

**CAS No.:** 133248-87-0

**Origin:** USA

| Item                               | Specifications                     | Method           | Results                    |
|------------------------------------|------------------------------------|------------------|----------------------------|
| Description                        | Reddish brown to brown fine powder | Organoleptic     | Fine, reddish brown powder |
| Odor                               | Slightly woody odor                | Organoleptic     | woody                      |
| Identification                     | NLT 90 %                           | FT-IR            | 94.5%                      |
| Assay (as Proanthocyanidin, as-is) | NLT 95 %                           | UV-Vis           | 97.85%                     |
| Loss on drying                     | NMT 5%                             | Moisture balance | 4.20%                      |
| Heavy Metals                       |                                    |                  |                            |
| Arsenic                            | NMT 2.0 ppm                        | ICP-MS           | <2 ppm                     |
| Cadmium                            | NMT 1.0 ppm                        | ICP-MS           | <1 ppm                     |
| Lead                               | NMT 2.0 ppm                        | ICP-MS           | <2 ppm                     |
| Mercury                            | NMT 0.5 ppm                        | ICP-MS           | <0.1 ppm                   |
| Microbiological                    |                                    |                  |                            |
| Total Plate Count                  | NMT 10,000 cfu/g                   | Petrifilm        | 1000 cfu/g                 |
| Yeast and Mold                     | NMT 1,000 cfu/g                    | Petrifilm        | < 1000 cfu/g               |
| Total coliforms                    | NMT 10 cfu/g                       | Petrifilm        | <10 cfu/g                  |
| E. coli                            | Absent in 10 grams                 | Petrifilm        | Absent in 10 g             |
| Salmonella                         | Absent in 10 grams                 | CompactDry       | Absent in 10 g             |

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