

CERTIFICATE OF ANALYSIS

| Product & batch Information | | | |
|--|--|---------------------|--------------------|
| Product name: | Ginger Root Extract 5-1 | Country of Origin: | P. R. China |
| Botanic Name: | Zingiber officinale | Type of extraction: | Water |
| Plant Part: | Root (Dried, 100% Natural) | Active ingredient: | Gingerol |
| Exact Ratio: | Approx. 5 parts of root to 1 part | Analysis | 500Kg |
| Analysis Item | Specification | Result | Test Method |
| Physical control | | | |
| Identification | Positive | Conforms | TLC |
| Appearance | Fine green brown powder | Complies | Visual |
| Odor | Characteristic | Complies | Organoleptic |
| Sieve Analysis | 100% pass 80 mesh | Complies | 80 Mesh Screen |
| Loss on Drying | 10% Max | 6.15% | 5g/105C/5hrs |
| Solubility | Good solubility in water | Conforms | Visual |
| Ash | 5% Max | 3.23% | 2g/525C/5hrs |
| Chemical Control | | | |
| Sulphate | 0.5% Max | Complies | 2g/525C/5hrs |
| Insolubles in Ethanol | 10ppm Max | 4.12ppm | \ |
| Arsenic (As) | NMT 2ppm | Conforms | Atomic Absorption |
| Cadmium (Cd) | NMT 1ppm | Conforms | Atomic Absorption |
| Lead (Pb) | NMT 2ppm | Conforms | Atomic Absorption |
| Chlorate (Cl) | NMT 1ppm | Conforms | Atomic Absorption |
| Phosphate Organics | NMT 1ppm | Conforms | Gas Chromatography |
| Heavy Metals | 20ppm Max | Complies | Atomic Absorption |
| Pesticides Residues | NMT 1ppm | Conforms | Gas Chromatography |
| Microbiological Control | | | |
| Total Plate Count | 1000cfu/g Max | 50cfu/g | |
| P.aeruginosa | Absent | O.K. | |
| S. aureus | Absent | O.K. | |
| Salmonella | Absent | O.K. | |
| Yeast & mold | 50cfu/g max | 10cfu/g | |
| E. Coli | Negative | Negative | |
| Staphylococcus | Negative | Conforms | |
| Alfatoxins | NMT 0.2ppb | Absent | HPLC |
| Salmonella | Negative | Negative | |
| Packing & Storage | | | |
| Packing | Pack in paper-drums and two plastic bags | | |
| Storage | Store in a well-closed container away from moisture | | |
| Shelf Life | 2 years if sealed and store away from direct sun light | | |

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