

FINISHED PRODUCT SPECIFICATION

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|--------------|----------------------------|----------------------------|
| PRODUCT NAME | GINGER EXTRACT 5.0% | SPEC: FPS/B01/2279-01 |
| | | Effective Date: 19-08-2022 |

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|----------------------------|----------------------------|--------------------|----------|
| Botanical/ Scientific name | <i>Zingiber officinali</i> | Plant part used | Rhizomes |
| Standardization | Gingerols | Production Method | Drying |
| Shelf Life | 3 years | Extraction Solvent | Ethanol |

| SL No | Protocol | Test Parameter | Test Limit |
|------------------------|----------------------|------------------------------|------------------------------|
| Physical | | | |
| 01 | Organoleptic | Description | Light brown color* powder |
| 02 | TM/2279 | Identification | To Comply by HPLC |
| 03 | USP <731> | Loss on drying | Not more than 5.0%w/w |
| 04 | USP <616> | Untapped bulk density | Between 0.30 to 0.60g/ml |
| 05 | USP <616> | Tapped bulk density | Between 0.40 to 0.80g/ml |
| 06 | USP <786> | Particle size | 100% passing through 40 mesh |
| Chemical | | | |
| 07 | TM /2279 | Content of Gingerols by HPLC | Not less than 5.0% w/w |
| Heavy Metal | | | |
| 08 | USP <233>Procedure 1 | Lead | Not more than 3.0 ppm |
| | USP <233>Procedure 1 | Arsenic | Not more than 1.0 ppm.... |
| | USP <233>Procedure 1 | Cadmium | Not more than 0.5 ppm |
| | USP <233>Procedure 1 | Mercury | Not more than 0.1 ppm |
| Microbiological | | | |
| 09 | USP <2021> | Total plate count | Not more than 3000cfu/g |
| | USP <2021> | Total yeast and mold count | Not more than 100cfu/g |
| | USP <2022> | Escherichia coli | Absent / 10g |
| | USP <2022> | Salmonella spp. | Absent / 10g |
| | USP <2021> | Coliforms | Absent / 10g |
| | USP <2022> | Staphylococcus aureus | Absent / 10g |
| | USP <62> | Pseudomonas aeruginosa | Absent / 10g |

| ADDITIONAL INFORMATION | |
|------------------------|---------------------------------|
| Sanitizing treatment | Non –irradiated |
| GMO Status | GMO free |
| Standard Packing | 25 Kg in single HDPE container. |



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|-------------------|---|
| Certifications | ISO 22000:2005, ISO 9001:2015, GMP, HALAL certified |
| Storage condition | Store in a cool and dry place away from sunlight and heat. The preferred storage is below 30 ⁰ C. |

* The product is of herbal origin. There may be minor color difference because of the geographical and seasonal variations of the plant material.

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