

FINISHED PRODUCT SPECIFICATION

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|--------------|--------------------------------|----------------------------|
| PRODUCT NAME | WHEAT GERM EXTRACT 5.0% | SPEC:FPS/B01/0629-01 |
| | | Effective Date: 18-04-2022 |

| | | | |
|----------------------------|-------------------------|--------------------|--------|
| Botanical/ Scientific name | <i>Triticum sativum</i> | Plant part used | Seed |
| Standardization | Polyamine & Spermidine | Production Method | Drying |
| Shelf Life | 3 years | Extraction Solvent | Water |

| SL No | Protocol | Test Parameter | Test Limit |
|------------------------|----------------------|------------------------------------|----------------------------------|
| Physical | | | |
| 01 | Organoleptic | Description | Off white to cream color* powder |
| 02 | TM/0629 | Identification | To Comply by TLC |
| 03 | USP | Solubility | NLT 80% soluble in water. |
| 04 | USP <921> | Moisture content | Not more than 7.0%w/w |
| 05 | USP <616> | Untapped bulk density | Between 0.30 to 0.60g/ml |
| 06 | USP <616> | Tapped bulk density | Between 0.40 to 0.80g/ml |
| 07 | USP <786> | Particle size | 100% passing through 40 mesh |
| Chemical | | | |
| 08 | TM /0629 | Content of Polyamine by Gravimetry | Not less than 5.0% w/w |
| | | Content of Spermidine by UV | Not less than 2.0% w/w |
| Heavy Metal | | | |
| 09 | 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 | | | |
| 10 | 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 |



Bio-Med Ingredients Pvt Limited

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| ADDITIONAL INFORMATION | |
|------------------------|---|
| Sanitizing treatment | Non –irradiated and not treated with ETO |
| GMO Status | GMO free |
| Standard Packing | 25 Kg in single HDPE container. |
| 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.

This is a computer generated copy. Hence signature not required



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