



## Technical Data Sheet

### 1. Product Identification

- Trade Name: PROTEINIC (MICROBIAL)
- Manufacturer: SHANXI IHUMATE BIOTECH CO.,LTD
- Address: No. 64 Nan Gou, Chen Village, Bailong Town, Huozhou, Linfen City, Shanxi Province,China.
- Tel. No.: +86- 18874230390

### 2. Typical Composition & Specifications

<u>Component</u>	<u>Specification</u>
Bacillus spp.	>5×10 <sup>9</sup> CFU/g
Silicon (Si) + Magnesium (Mg) + Calcium (Ca)	>6%
Protein	>25%
Organic Carbon	>45%
Moisture	≤12% (typical)
Granule size	2–4 mm (typical)

### 3. Physical & Chemical Properties

- Appearance: Dark brown to black granular
- Odor: Slight earthy/organic odor
- Bulk density: ~0.6–0.8 g/cm<sup>3</sup>
- Solubility: Partially soluble in water; dispersible
- Flowability: Good (granular)
- Stability: Stable under normal storage; avoid high temperature & direct strong sunlight

### 4. Microbiological Properties

- Active strain: Bacillus subtilis / Bacillus amyloliquefaciens (or as per your strain)
- Viable count: ≥10<sup>9</sup> CFU/g
- Shelf life: 36 months (cool, dry storage)
- Pathogens: Salmonella, E. coli, Shigella negative (compliant with organic/biological fertilizer standards)

### 5. Application & Usage

- Application methods: Soil application, basal dressing, top dressing, furrow application
- Crops: Field crops, vegetables, fruit trees, flowers, lawns
- Dosage: 300–750 kg/ha (adjust per crop & soil condition)
- Compatibility: Compatible with most organic fertilizers; avoid mixing with strong acids/alkalis or high-concentration disinfectants

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**山西艾优美生物科技有限公司**  
**SHANXI IHUMATE BIOTECH CO.,LTD**  
**ALWAYS PRECISE NUTRITION FOR YOU**

#### 6. Packaging & Storage

- Packaging: 25 kg / 50 kg woven bag with PE liner
- Storage: Cool, dry, well-ventilated area; avoid direct sunlight, high temperature, moisture
- Shelf life: 36 months under proper storage

#### 7. Safety & Handling

- Non-hazardous for normal agricultural use
- Avoid inhalation of dust; wear gloves & mask during bulk handling
- Keep out of reach of children & pets
- For agricultural use only; not for human/animal consumption

#### 8. Quality Control & Compliance

- Meets national/regional standards for bio-organic fertilizers
- Microbial count, nutrient content, heavy metals (Pb, Cd, As, Hg, Cr) comply with relevant regulations
- Heavy metals (typical): Pb  $\leq$ 50 mg/kg, Cd  $\leq$ 10 mg/kg, As  $\leq$ 20 mg/kg, Hg  $\leq$ 2 mg/kg, Cr  $\leq$ 100 mg/kg

#### 9. Disclaimer

This TDS is based on typical production specifications and is for reference only. Actual values may vary slightly within the stated ranges. The user is responsible for verifying suitability for specific applications.

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