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TECHNICAL DATA SHEET

Product: Marigold Extract

CAS No.: 84776-23-8

1. Product Description

Marigold Extract is a natural carotenoid product derived from the flowers of Tagetes erecta. It is a rich natural source of lutein and is supplied as a free-flowing orange fine powder. As a natural colorant and antioxidant, it is widely used in the feed, food, nutraceutical and pharmaceutical industries to enhance color and support overall health.

2. Specifications

Test Item	Specification
Lutein (HPLC)	≥ 20.0%
Appearance	Orange Fine Powder
Odor & Taste	Characteristic
Identification	Positive
Particle Size	95% Pass 80 Mesh
Loss on Drying	≤ 8.0%
Ash	≤ 8.0%
Total Heavy Metals	≤ 10 ppm
Lead (Pb)	≤ 2 ppm
Arsenic (As)	≤ 2 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 0.1 ppm
Total Plate Count	≤ 10,000 CFU/g
Yeast & Mold	≤ 1,000 CFU/g
E. coli	Negative
Salmonella	Negative

3. Applications

Marigold Extract is a versatile natural lutein source applied across multiple industries:

- **Animal & Poultry Feed —** as a natural pigment to intensify egg yolk color, skin, shank and beak pigmentation in poultry, and to enhance the color of aquatic species such as shrimp and crab, serving as a natural alternative to synthetic colorants.
- **Dietary Supplements —** as a key ingredient for eye health, providing lutein to support macular pigment density, visual function and antioxidant defense against oxidative stress; available in lutein ester and crystalline forms.

- **Food Coloring —** as a natural yellow colorant for food products, providing a clean-label alternative to synthetic yellow dyes while contributing antioxidant value.
- **Nutraceutical & Pharmaceutical —** for functional nutrition and pharmaceutical applications supporting retinal health and general well-being.

4. Advantages

Why choose our Marigold Extract:

- **High Purity Natural Source —** obtained from carefully selected natural marigold flowers with high lutein content, meeting export-grade quality standards.
- **Reliable Quality & Traceability —** every batch is subject to strict quality control; full COA with complete specification data is provided for traceability.
- **Consistent Batch Performance —** stable color value and lutein content with excellent batch-to-batch consistency, ensuring uniform performance in downstream application.
- **Natural & Clean-Label —** derived from natural origin, supporting clean-label trends and consumer preference for naturally-sourced ingredients.
- **Flexible Packaging —** available in flexible packaging options to suit different order quantities and application needs.
- **Professional Support —** experienced export team providing prompt technical support and professional documentation (COA, TDS, MSDS, etc.).

5. Packaging

Packaging:

- 1 kg / Aluminum Foil Bag
- 5 kg / Aluminum Foil Bag
- 25 kg / Fiber Drum with Inner Double PE Bags

6. Storage Conditions

Store in a tightly sealed original package in a cool, dry and well-ventilated place. Protect from direct sunlight, moisture, excessive heat and strong oxidizing conditions.

Due to the sensitivity of carotenoids to light, oxygen and heat, appropriate packaging and storage conditions are important for maintaining product quality.

7. Shelf Life

Typically 24 months when stored under recommended conditions in unopened original packaging. Please refer to the actual product label and COA for confirmation.

The information provided in this Technical Data Sheet is based on our knowledge and experience and is believed to be accurate. It is given in good faith for your reference only and does not constitute a warranty or specification. Buyers should carry out their own tests to determine the suitability of the product for their particular purpose.