

Lutein

Batch no TKL-20240711
 Mf date Jul 11 2024
 Retest Jul 10 2026
 Batch qty 400 kg

Source Marigold Flower Petals P.E.
 Botanical name Tagetes Erecta L.
 Plant part Flower
 Solvent used Ethanol & water
 Carrier used None

Sep 02 2024

| <u>Tests</u> | <u>Specifications</u> | <u>Results</u> |
|------------------------|---|----------------|
| Appearance | Orange powder | Conforms |
| Identification | Meets the requirements | Positive |
| Odor & taste | Characteristic | Conforms |
| Loss on drying | ≤ 5.0% | 1.96% |
| Residue on ignition | ≤ 5.0% | 0.98% |
| Heavy metals | ≤ 20 ppm | Conforms |
| Pb | ≤ 0.5 ppm | Conforms |
| As | ≤ 0.5 ppm | Conforms |
| Hg | ND | ND |
| Pesticide residue (GC) | Acephate ≤ 0.1 ppm | Conforms |
| | Methamidophos ≤ 0.1 ppm | Conforms |
| | Parathion ≤ 0.1 ppm | Conforms |
| | PCNB ≤ 10 ppb | Conforms |
| Microbiological test | Total plate count ≤ 1000 cfu/gr | Conforms |
| | Yeast & mold ≤ 100 cfu/gr | Conforms |
| | E. coli Negative | Negative |
| | Salmonella Negative | Negative |
| Mesh size | 100% pass 80 mesh | Conforms |
| Assay (HPLC) | Lutein ≥ 80% | 80.36% |
| Packaging & storage | Store in cool & dry place, keep away from strong light and heat | |
| Conclusion | Material complies with in-house standard | |