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Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

CERTIFICATE OF ANALYSIS

Name of the Sample : Methyl Orange pH Indicator
Batch No. : 228300
Date of Mfg. : Jan 2025
Date of Exp : Dec 2029
Register No. : 2025-26
Qty of Sample : 100gm
Date of Analysis : Jan 2025

| S. No | Test Parameters | Observed Values | Standard Values |
|-------|--|-----------------|----------------------|
| 1. | Appearance | Passes | Dark orange powder |
| 2. | Transition range pH 3.1-4.4 | Passes | Pink – Orange yellow |
| 3. | Solubility 0.1% (Dist. water) | Passes | Orange solution |
| 4. | Absorptivity 1%/1cm, (pH 3.1) at λ max. 505.0 nm (pH 4.4) at λ max. 469.0 nm | 1119 781 | >1050 > 750 |
| 5. | Loss on drying at 110°C (1 hr) | 1.31% | < 3% |
| 6. | Transition range acc. ACS | Passes test | Passes test |

Chief Chemist