

## TBF 094 – METHYL SULFONYL METHANE (MSM)

|                         |  |                         |
|-------------------------|--|-------------------------|
| REF NO: TBL/QA/SS/F/094 | STANDARD SPECIFICATION<br>FOR METHYL SULFONYL<br>METHANE (MSM) | Rev. No: 03             |
| Issue No: 04            |  | Review Date: 06/02/2025 |
| Issue Date: 07/02/2022  |  | Product code: TBF 094   |

### PRODUCT PROPERTIES

|                    |  |
|--------------------|--|
| C.A.S Number       | NA   |
| Chemical Formula   | NA   |
| Formula weight     | NA   |
| Functional Uses    | MSM is a potent anti-inflammatory commonly used to treat osteoarthritis, rheumatoid arthritis, tendonitis, and tenosynovitis |
| Standard Packaging | NA   |

### PHYSICAL PARAMETERS

| PRODUCT PARAMETER |                   | SPECIFICATION  |
|-------------------|-------------------|--|
| Appearance        |                   | White crystalline powder.  |
| Taste             |                   | Bitter taste.  |
| Identification    | IR Identification | The IR spectrum of the sample should be concordant with the IR spectrum of the MSM working standard. |
|                   | Retention time    | The Retention time of the sample assay peak corresponds to the Standard peak.                        |

### CHEMICAL PARAMETERS

| PRODUCT PARAMETER  |  | SPECIFICATION     |
|--|--|-------------------|
| Water Content  |  | NMT – 0.1%        |
| Melting point  |  | 108.5°C – 110.5°C |
| Heavy Metals   |  | NMT – 3 µg per g  |
| Assay  |  | NLT – 99.0%       |
| Chromatographic purity (%)                                   |  | NLT – 99.8%       |
| a) Limit of Dimethyl Sulfoxide as an individual impurity (%) |  | NMT – 0.1%        |
| b) Any other individual impurity (%)                         |  | NMT – 0.05%       |
| c) Total impurities (%)                                      |  | NMT – 0.2%        |



**MICROBIAL PARAMETERS**

| PRODUCT PARAMETER       | SPECIFICATION    |
|-------------------------|------------------|
| Total viable count      | NMT – 1000 cfu/g |
| <i>Escherichia coli</i> | Negative         |
| Yeast & Molds           | NMT – 100 cfu/g  |

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

