



UV Absorbers Specialist

## CERTIFICATE OF ANALYSIS

### Mfsorb® 202

|                     |                                |                     |            |
|---------------------|--------------------------------|---------------------|------------|
| <b>Product Name</b> | Benzophenone-3<br>(Oxybenzone) | <b>CAS No.</b>      | 131-57-7   |
| <b>Batch No.</b>    | BP3-20221224                   | <b>Batch Weight</b> | 1200kg     |
| <b>MFG. Date</b>    | 2022.12.12                     | <b>Retest Date</b>  | 2026.12.11 |

| Item                                 | Specification  | Result        |
|--------------------------------------|--|---------------|
| <b>Appearance</b>                    | Pale greenish yellow crystalline powder                          | Conform       |
| <b>Odor</b>                          | Similar in character and intensity to standard, very slight odor | Conform       |
| <b>Identification</b>                | A. Infrared Absorption <197K>                                    | Conform       |
|                                      | B. The retention time corresponds to the standard.               | Conform       |
| <b>Assay (HPLC)</b>                  | 97.0%~103.0%   | 100.8%        |
| <b>Congeaing Temperature</b>         | ≥ 62.0°C   | 62.3°C        |
| <b>Loss on Drying</b>                | ≤ 0.20%  | 0.12%         |
| <b>Impurities (HPLC)</b>             | Total impurities: ≤ 1.0%   | 0.049%        |
|                                      | Benzophenone-1: ≤ 0.2%   | 0.01%         |
|                                      | Single largest unspecified impurities: ≤ 0.10%                   | 0.0018%       |
| <b>Residual Solvents</b>             | Ethanol ≤ 5000ppm  | 614ppm        |
| <b>Specific Extinction (1%, 1cm)</b> | E <sub>268</sub> ≥ 630   | 651           |
|                                      | E <sub>325</sub> ≥ 410   | 427           |
| <b>Melting Point</b>                 | 62.0°C~65.0°C  | 62.1°C~62.6°C |
| <b>Gardner Color</b>                 | ≤ 4.0  | 2.9           |

**Conclusion:** Meets the requirements of current USP monograph for Oxybenzone.

Prepared by: *[Signature]* Date: 2023.03.28 Approved by: *[Signature]* Date: 2023.03.28