

## CERTIFICATE OF ANALYSIS

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PRODUCT NAME: BENZOPHENONE-3 ✓  
 QUANTITY: 500KGS  
 BATCH NO.: BP3-20210809 ✓  
 MANUFACTURING DATE: AUG 09, 2021  
 EXPIRY DATE: AUG 08, 2024 ✓  
 REFERENCE STANDARD: USP40  
 ANALYSIS DATE: AUG 10, 2021

Item	Specification	Test Results
1. Appearance	Pale greenish yellow crystalline powder	Conform
2. Identification	IR: Identical to IR Spectrum of standard	Conform
	HPLC: The retention time of the major peak of the sample solution corresponds to that of standard solution, as obtained in the assay	Conform
3. Assay (HPLC)	≥ 99%	99.94%
4. Congealing Temperature	≥ 62.0 °C	63.2 °C
5. Loss on Drying	≤ 0.2%	0.07%
6. Impurities	Total Impurities: ≤ 1.0%	0.14%
	Benzophenone-1 ≤ 0.2%	Conform
	Single largest unspecified impurity ≤ 0.10%	Conform
7. Residual Solvents	Ethanol ≤ 5000 ppm	106 ppm
8. Odor	Similar in character and intensity to standard, very slight odor	Conform
9. Specific Extinction (1%, 1cm)	E <sub>288</sub> ≥ 630	637
	E <sub>325</sub> ≥ 410	420
10. Melting Point	62.0 ~ 64.0 °C	62.6 °C
11. Heavy Metals (Pb)	≤ 5 ppm	Conform
12. Gardner Color	≤ 4.0	2.9

*For and on behalf of*