



大连汉德姆精细化学品有限公司

DALIAN HANDOM CHEMICALS CO.,LTD.

Certificate of Analysis

Product Name: Avobenzone

Batch No.: HDC20230117

Manufacturing Date: Jan 17th, 2023

Retest Date: Jan 16th, 2026

Quantity: 6000kg

Packing: 25kg/carton

Test Item	Specification	Test Result	
Appearance	White to pale yellow powder	Conforms	
Identity(IR) USP<197K>	Matches reference spectrum	Conforms	
Identity(Retention Time) USP<621>	Matches reference retention time	Conforms	
UV specific extinction($E_{1\text{cm}}^{1\%}$ at 357 nm in ethanol)Spectrophotometry USP<197U>	1100 ~ 1180	1170	
Melting Point USP<741>	81.0°C ~ 86.0°C	83.3°C ~ 84.5°C	
Loss on Drying USP<731>	Not more than 0.50%	0.04%	
Chromatographic purity GC USP<621>	Single Impurity	Not more than 3.0%	1.0%
	Total Impurities	Not more than 4.5%	1.5%
Assay GC USP<621>	95.0% ~ 105.0%	98.6%	
Residual Solvents GC USP<467>	Methanol	Not more than 3000 ppm	Conforms
	Toluene	Not more than 890 ppm	Conforms
Microbiology	Total plate count	Not more than 100 CFU/g	Conforms
	Yeasts & moulds	Not more than 100 CFU/g	Conforms

Conclusion: The testing results of this batch are complied with the current USP standards.