



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  
**Manufacturing Date:** May 30<sup>th</sup>, 2023  
**Quantity:** 5000kg

**Batch No.:** HDC20230530  
**Retest Date:** May 29<sup>th</sup>, 2026  
**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( $E^{1\%}_{1cm}$ at 357 nm in ethanol)Spectrophotometry USP<197U>	1100 ~ 1180	1170	
Melting Point USP<741>	81.0°C ~ 86.0°C	83.5°C ~ 84.0°C	
Loss on Drying USP<731>	Not more than 0.50%	0.06%	
Chromatographic purity GC USP<621>	Single Impurity	Not more than 3.0%	0.8%
	Total Impurities	Not more than 4.5%	1.3%
Assay GC USP<621>	95.0% ~ 105.0%	99.7%	
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.