

**ACROSS BIOTECH**

MAKE A DIFFERENCE

Certificate of Analysis

Product	Menthol crystal	Quantity	5MTs
MFG Date	2021/9/19	Batch No.	2021091901
EXP Date	2024/9/18	Standard	USP38

Item	USP	Result
Identification	Colorless transparent hexagonal or needlelike crystals	Conform
Melting point(°C)	41~44	42.1
Solubility	1g soluble in 5ml of 90%(v/v) alcohol, forming a clear solution	Conform
Specific rotation(25°C)	-45°~-51°	-49°
Limit of Nonvolatile residue (%)	Not overrun 0.05 under condition of 105°C	0.02
Organic volatile impurities	Solvent-Use dimethyl sulfoxide	Conform
Chromatographic purity	The peak response due to menthol is not less than 99%	99.7
As <	3ppm	1ppm
Heavy metals <	10ppm	5ppm
Residue on ignition < %	0.1	0.01%
Related substances	Examine by gas chromatography	Conform
Conclusion	This batch goods meet standard of USP38	

Inspector: Meng Cheng

Checker: Yun Li