

# CERTIFICATE OF ANALYSIS

## MENTHOL 98% (HPLC)

Batch No.: FS-ME130115 MFG Date: 20130115 EXP Date: 20150114

### General Information

Botanical Source: *Mentha haplocalyx* Using part: Whole plant Place of origin: China

ANALYSIS ITEMS	SPECIFICATION	METHOD	RESULT
<b>Physical&amp;Chemical Data</b>			
Appearance	Hexagonal crystal	Organoleptic	Conform
Colour	Colorless	Organoleptic	Conform
Odour	With Mint Flavor	Eur.Ph.7.0<2.3.4>	Conform
<b>Analysis Quality</b>			
Menthol	≥98%	HPLC(on anhydrous basis)	99.2%
Melting point	42 - 44°C	USP32<741>	42°C
Optical activity	-49 — -50°	Eur.ph.7.0<2.2.7>	-49.5°
Nonvolatile matter	<0.05%	105°C for 1hour	0.045%
<b>Heavy Metal</b>			
As	<20ppm	Eur.Ph.7.0<2.4.8>	Conform
Pb	<2ppm	Eur.Ph.7.0<2.2.58>ICP-MS	<0.01ppm
Hg	<3ppm	Eur.Ph.7.0<2.2.58>ICP-MS	<0.01ppm
Cd	<0.1ppm	Eur.Ph.7.0<2.2.58>ICP-MS	<0.01ppm
<b>Microbiological</b>			
Total Plate Count	≤1000cfu/g	Eur.Ph.7.0<2.6.12>	Conform
Yeast & Mold	≤100cfu/g	Eur.Ph.7.0<2.6.12>	Conform
E. Coli	Negative	Eur.Ph.7.0<2.6.13>	Conform
Salmonella	Negative	Eur.Ph.7.0<2.6.13>	Conform
<b>Packing &amp; Storage</b>			
	Packed in paper-drums and two plastic-bags inside		
	Net W. : 25KGs D38*H55		
	Store in cool & dry place, Keep away from strong light and heat.		
<b>Shelf Life</b>			
	2 years when properly stored with its original packaging.		

**Conclusion: Conform to specification.**

Quality Assurance Office: Mei Liu

Analyst: Jun Zhu

