



Shenzhen Happy Pharmaceuticals Ltd.

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Factory: No. 8, Xingfu Road, Gudi Industrial Zone, Hanting, Weifang, China

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CERTIFICATE OF ANALYSIS

Lot: C011112

Synephrine Tartrate			
Batch Number	03-1202	Particle size	100-mesh
Manufacturing Date	2012-05-11	Expiration Date	2015-05-10
Quantity	100 kg	Date of Analysis	2012-05-11

Test Items	Specification	Results
Characters	White or almost white, crystalline powder	White crystalline powder
Identification A	Bromide Test	Complies
Identification B	MP of base (176° to 189°)	178°~179°
Identification C	Color Test	Complies
Identification D	Tartrate Test	Complies
Clarity	Clear and Colourless	Complies
Melting point	183° to 187°	186°~187°
Specific Optical Rotation	+11° to +15°	+12.6°
PH	5.0 to 6.5	6.3
Iron	≤ 5 ppm	Complies
Ketones	≤ 0.1 (310nm)	0.01
Heavy Metals	Not more than 10 ppm	Complies
Loss on Drying	Not more than 0.5 %	0.03%
Sulphated Ash	Not more than 0.1 %	0.04%
Assay	Not less than 99.0 %	100.2 %
Residual Solvent	Ethanol ≤5000 ppm	80 ppm
Particle Size	98% past 100 Mesh	Complies
Package and Storage	Preserve in tight and light-resistant containers.	
Conclusion	The product meets the requirements of factory	

For and on behalf of
QC Manager
Shenzhen Happy Pharmaceuticals Ltd.

Authorized Signature(s)

Inspector: 叶海琼

Operator: 刘胜