



Shenzhen Happy Pharmaceuticals Ltd.

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CERTIFICATE OF ANALYSIS

Synephrine Tartrate			
CAS Number	67-04-9	Particle size	100-mesh
Batch Number	03-1503	Expiration Date	2018-05-05
Manufacturing Date	2015-05-06	Date of Analysis	2015-05-06
Quantity	100.0 kg	Issue date of COA	2015-05-07

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°)	181°~183°
Identification C	Color Test	Complies
Identification D	Tartrate Test	Complies
Clarity	Clear and Colorless	Complies
Melting point	183° to 187°	185.6°~186.6°
Specific Optical Rotation	+11° to +15°	+13.5°
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 %	0.02%
Sulphated Ash	Not more than 0.1 %	0.04%
Assay	Not less than 99.0 %	99.9 %
Residual Solvent	Ethanol ≤5000 ppm	120 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
Shenzhen Happy Pharmaceuticals Ltd.
QC Manager: 李曉東
(Signature/date) 2015.05.07
Authorized Signature(s)

Inspector: 叶海琼
(Signature/date) 2015.05.07

Operator: 李亚娟
(Signature/date) 2015.05.07