



聯邦制藥 (珠海)  
UNITED LABORATORIES (ZHUHAI)

Add: Sanzao Science & Technology Park, National Hi-Tech Zone, Zhuhai, Guangdong - 519040, P. R. China

Tel: +86-756-7766777

Fax: +86-756-7767377

## ZHUHAI UNITED LABORATORIES CO., LTD.

### CERTIFICATE OF ANALYSIS

TZDD14020778

No: 140214008

NO: 140214008

Name of product	Amoxicillin Trihydrate Compacted	Batch NO.	30914018003
Packing	25.00kg/drum	Pieces	40 drums +1drum
Batch weight	1021.40kg	Specifications	EP and client request.
Mfg. Date	10/01/2014	Exp.Date	12/2017
Date of testing	12/02/2014	Date of report	14/02/2014
Storage	Store in the airtight container		
CEP: R0-CEP 2007-191-Rev 03			

TESTS	SPECIFICATIONS	RESULTS	CONCLUSION
[APPEARANCE]	A white or almost white crystalline powder and granule.	A white crystalline powder and granule.	Conforms
[IDENTIFICATION]	Examine by IR absorption spectrophotometry, comparing with the spectrum obtained with amoxicillin trihydrate CRS	Conforms	Conforms
[TESTS]			
pH	3.5 ~ 5.5	4.5	Conforms
Specific optical rotation	+ 290 ~ + 315	+302	Conforms
Related substances	Any specified impurity ≤ 1.0% Any unspecified impurity ≤ 0.10% Total impurities ≤ 3.0%	0.28% 0.06% 0.84%	Conforms Conforms Conforms
N, N-Dimethylaniline	NMT 20 ppm (Not used in process)	Conforms	Conforms
Water	11.5% ~ 14.5%	12.9%	Conforms
Sulphated ash	NMT 1.0%	0.080%	Conforms
Assay	95.0%~102.0% $C_{16}H_{19}N_3O_5S$ (calculated on the anhydrous basis)	100.4%	Conforms
Residual solvents			Conforms
a) Acetone	NMT 800 ppm	39 ppm	
b) Dichloromethane	NMT 600 ppm	304 ppm	
c) Triethylamine	NMT 300 ppm	76 ppm	
d) N,N-dimethylacetamide	NMT 1090 ppm	273 ppm	
e) Toluene	NMT 600 ppm	288 ppm	
f) Pivalic acid	NMT 1000 ppm	676 ppm	
Bulk Density	0.45 g/ml ~ 0.65 g/ml	0.53 g/ml	Conforms
Tapped Density	NLT 0.65 g/ml	0.78 g/ml	Conforms
Particle size	NMT 35% (≥ 850 μm) NLT 40% (850 μm ~ 180 μm) NMT 30% (≤ 180 μm)	5% 78% 17%	Conforms
[SOLUBILITY]	It is slightly soluble in water, very slightly soluble in ethanol (96 percent), practically insoluble in fatty oils. It dissolves in dilute acids and dilute solutions of alkali hydroxides.	Conforms	Conforms

**CONCLUSION:** The results conform with EP and client request..

Pharmacopoeia quality: Complies with the current editions of USP, EP & BP  
Manufactured according to ICH Q7A GMP for APIs

REPORTED BY:

CHECKED BY:

APPROVED BY:

