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ZHUHAI UNITED LABORATORIES CO., LTD.

CERTIFICATE OF ANALYSIS

TZDD14020778

No: 140214010

Name of product	Amoxicillin Trihydrate Compacted	Batch NO.	30914018007
Packing	25.00kg/drum	Pieces	40 drums +1drum
Batch weight	1026.44kg	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	T = site of topolit	14/02/2014
CEP: R0-CEP 2007-	191-Rev 03		

TESTS	SPECIFICATIONS	RESULTS	CONCLUSION
[APPEARANCE] [IDENTIFICATION]	A white or almost white crystalline powder and granule. Examine by IR absorption spectrophotometry. comparing with the spectrum obtained with	A white crystalline powder and granule. Conforms	Conforms Conforms
[TESTS] pH Specific optical rotation Related substances	the spectrum obtained with amoxicillin trihydrate CRS 3.5 ~ 5.5 + 290 ~ + 315 Any specified impurity≤1.0% Any unspecified impurity ≤ 0.10%	4.4 +301 0.25% 0.05%	Conforms Conforms Conforms
N, N-Dimethylaniline Water Sulphated ash Assay Residual solvents	Total impurities $\leq 3.0\%$ NMT 20 ppm (Not used in process) 11.5% $\sim 14.5\%$ NMT1.0% 95.0% $\sim 102.0\%$ C ₁₆ H ₁₉ N ₃ O ₅ S (calculated on the anhydrous basis) .	0.73% Conforms 12.8% 0.090% 99.4%	Conforms Conforms Conforms
a) Acetone b) Dichloromethane c) Triethylamine d) N,N-dimethylacetamide e) Toluene f) Pivalic acid	NMT800ppm NMT600ppm NMT300ppm NMT1090ppm NMT600ppm NMT1000ppm	38 ppm 289ppm 72 ppm 307 ppm 281 ppm 618 ppm	Conforms
Bulk Density Tapped Density Particle size [SOLUBILITY]	0.45 g/ml ~ 0.65g/ml NLT0.65g/ml NMT35%(≥850 μ m) NLT40%(850 μ m~180 μ m) NMT30%(≤180 μ m) 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.	0.53 g/ml 0.78 g/ml 4% 77% 19% Conforms	Conforms 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:



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ZHUHAI UNITED LABORATORIES CO., LTD.

CERTIFICATE OF ANALYSIS

TZDD14020779

No: 140214004

Name of product	Amoxicillin Trihydrate	BILL		
Grade	Normal powder	Batch No.	30814018036	
Packing	25.00kg/drum	Pieces	40drums+1drum	
Batch weight	1014.06kg	Specifications	EP	
Mfg. Date	07/01/2014	Exp. Date	12/2017	
Date of testing	12/02/2014	Date of report	14/02/2014	
Storage	Store in an airtight containe	r.	1	
CEP: No. R1-CEP 2006-03	39-Rev 00			

TESTS	SPECIFICATIONS	RESULTS	CONCLUSION
[APPEARANCE]	A white or almost white, crystalline powder.	A white crystalline powder	Conforms
[IDENTIFICATION]	Examine by IR absorption spectrophotometry, comparing with the spectrum obtained with Amoxicilin Trihydrate	Conforms	Conforms
[SOLUBILITY]	CRS. It 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
[TESTS]			
рН	3.5 to 5.5	4.5	Conforms
Specific optical rotation Related substances	+290 to +315	+304	Conforms
Any specified impurity	NMT 1.0%	0.25%	Conforms
Any unspecified impurity	NMT 0.10%	0.06%	
Total impurities	NMT 3.0%	0.55%	
N, N-Dimethylaniline	NMT 20 ppm (Not used in process)	Conforms	Conforms
Water	11.5% to 14.5%	13.0%	Conforms
Sulphated ash	NMT 1.0%	0.060%	Conforms
Assay	95.0% to 102.0% C ₁₆ H ₁₉ N₃O₅S, calculated on anhydrous basis.	100.3%	Conforms
Residual solvents	a, a, o ao b aoio.		
a) Acetone b) Dichloromethane c) Triethylamine d) N,N-dimethylacetamide	NMT 800ppm NMT600ppm NMT 300ppm NMT 1090ppm	49ppm 369ppm 81ppm 294ppm	Conforms Conforms Conforms Conforms
e) Toluene	NMT 600ppm	403ppm	Conforms
f) Pivalic acid	NMT 1000ppm	670ppm	Conforms
Bulk density	0.15~0.23g/ml	0.21 g/ml	Conforms

CONCLUSION: The product conforms to EP Specifications.

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

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