Reg.Off:25,Bharathi Ula Road, Race Course, Madurai-625002, Tamilnadu, India. Tel:++91(452)4345115/4345116 FAX:91(452)2568580 e-mail:quantumdrugs@gmail.com

## **CERTIFICATE OF ANALYSIS**

Product : TOLBUTAMIDE BP Batch No: TB/EXP-Quantity :

Mfg. Month : Exp. Month:

S. No	Tests	Standards		
1	Appearance	White Crystalline Powder		
2	Solubility	Practically insoluble in water, soluble in acetone and in ethanol (96 per cent). It dissolves in dilute solutions of alkali hydroxides.		
3	IDENTIFICATION			
А.	Melting point	126 °C to 130 °C		
В.	UV and visible absor	Test solution (a) Dissolve 25.0 mg in methanol R and dilute to 100.0ml with the same solvent. Test solution (b) Dilute 10.0 ml of test solution (a) to 250.0 ml with methanol R. Spectral range: 245 - 300 nm for test solution (a); 220-235 nm for test solution (b). Absorption maxima; At 258 nm, 263 nm and 275 nm for test solution (a); at 228 nm for test solution (b). Shoulder: At 268 nm for test solution (a). Specific absorbance at the absorption maximum 480 to 520 for test solution (b) .		
C.	Infrared absorption	Compare spectrum with the reference spectrum of Tolbutamide CRS		
D.	Melting point after recrystallisation	135 °C to 140 °C		
4	Appearance of Solutions	Dissolve 0.2 g in 5ml of dilute Sodium hydroxide solution R and add 5ml of water R. The solution is clear and colorless.		
5	pH	4.5 to 5.5		
6	Related Substances(BY HPLC i) Unspecified impuri ii)PTSA(ImpurityA) iii)PTSU(Impurity B) iv) Total Impurities	Not more than 0.10% Not more than 0.10% Not more than 0.10% Not more than 0.3%		
7	Loss on drying	Maximum 0.5%		
8	Sulphated ash	Maximum 0.1%		
9	Assay by Titration (C			
REMA	RKS: THE ABOVE PRO	ICT CONFORMS TO SPECIFICATIONS OF TOLBUTAMIDE BP		
Prepared by		ed by: Reviewed by: Approved by:		
Name:				
Designa				
Signature:				
Date:		and the second		

Manufacturing Site: C-21, Sipcot Industrial Complex, Manamadurai - 630 606. India. Phone No.: ++91-4574-2583495

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## **CERTIFICATE OF ANALYSIS**

Product : TOLBUTAMIDE EP Batch No: TB/EXP-Quantity:

Mfg. Month : Exp. Month:

S. No	Tests		Stand	lards	
1	Appearance	White Cry	stalline Powder		
2	Solubility	(96 per cer	Practically insoluble in water, soluble in acetone and in ethanol (96 per cent). It dissolves in dilute solutions of alkali hydroxides.		
3	IDENTIFICATION				
А.	Melting point	126 °C to 1	130 °C		
В.	UV and visible absorption	100.0ml w Test solut with meth Spectral ra test solution Absorption solution (a Shoulder: Specific al	Test solution (a) Dissolve 25.0 mg in methanol R and dilute to 100.0ml with the same solvent. Test solution (b) Dilute 10.0 ml of test solution (a) to 250.0 ml with methanol R. Spectral range: 245 - 300 nm for test solution (a); 220-235 nm for test solution (b). Absorption maxima; At 258 nm, 263 nm and 275 nm for test solution (a); at 228 nm for test solution (b). Shoulder: At 268 nm for test solution (a). Specific absorbance at the absorption maximum 480 to 520 for test solution (b).		
C.	Infrared absorption	Compare s	Compare spectrum with the reference spectrum of Tolbutamide CRS		
D.	Melting point after recrystallisation	135 °C to 1	135 °C to 140 °C		
4	Appearance of Solutions	add 5ml of	Dissolve 0.2 g in 5ml of dilute Sodium hydroxide solution R and add 5ml of water R. The solution is clear and colorless.		
5	pH	4.5 to 5.5	4.5 to 5.5		
6	Related Substances(BY HPLC) i) Unspecified impurities ii)PTSA(ImpurityA) iii)PTSU(Impurity B) iv) Total Impurities	Not more Not more Not more Not more	than 0.10% than 0.10%		
7	Loss on drying	Maximum	Maximum 0.5%		
8	Sulphated ash	Maximum	Maximum 0.1%		
9	Assay by Titration (ODB)	99.0% to 10	99.0% to 101.0%		
REMAI				S OF TOLBUTAMIDE EP	
Prepared by			Reviewed by:	Approved by:	
Name:		•	1		
Designa	tion:		N		
Signatu					
Date:				Star	

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## **CERTIFICATE OF ANALYSIS**

Product : TOLBUTAMIDE USP Batch No : TB/EXP Quantity :

DTATA

Mfg. Month: Exp. Month :

S1. No	Tests	Standards		
1	Identification Infrared Absorption	Compare spectrum with the reference spectrum of USP Tolbutamide RS		
2	Melting Range	between126° C and 130° C		
3	Loss on drying	Not more than 0.5 %		
4	Selenium	0.003 %		
5	Limits of Non Sulphonyl urea	Dissolve 500 mg in 10 ml of 0.5N Ammonium hydroxide: not more than a faint opalescence occurs.		
6	Assay by HPLC (ODB)	97.0 to 103.0 %		

	Prepared by:	Reviewed by:	Approved by:
Name:			
Designation:			
Signature:			
Date:			

Manufacturing Site: C-21, Sipcot Industrial Complex, Manamadurai - 630 606. India. Phone No.: ++91-4574-258349.

