



**Specification for Trismat(R) Hydrochloride, Biologics Plus,  
cGMP, bioCERTIFIED (TM) (T9755)**

Item Number	T9755
Item	Trismat(R) Hydrochloride, Biologics Plus, cGMP, bioCERTIFIED (TM)
CAS Number	1185-53-1
Molecular Formula	$C_4H_{11}NO_3 \cdot HCl$
Molecular Weight	157.59
MDL Number	
Synonyms	Spectris™ Hydrochloride ; Trismat* Hydrochloride ; Tris(hydroxymethyl)aminomethane Hydrochloride

Test	Specification	
	Min	Max
Assay, Dried Basis, by Titration	99.5 %	
PH OF A 1M SOLUTION	3.7	4.7
IDENTIFICATION (IR)	TO PASS TEST	
APPEARANCE	TO PASS TEST	
pKa, 20°C	8.0	8.4
MELTING POINT	150.0	153.0°C
SOLUBILITY (1M, AQUEOUS)	Clear, colorless	
WATER (KARL FISCHER)		0.50 %
Loss on Drying, @ 110°C		0.4 %
TOTAL TRACE METALS		5 ppm
IRON		1 ppm
RESIDUE ON IGNITION		0.1 %
UV ABSORBANCE @ 260 NM (1.0M IN H2O)		0.02
UV ABSORBANCE @ 280 NM (1.0M IN H2O)		0.02
UV Absorbance @ 400 nm (1.0M in H2O)		0.01
BACTERIAL ENDOTOXINS		2.5 EU/g
MICROBIAL LIMITS:		
BIOBURDEN		100 CFU/g
TYMC		100 CFU/g
DNase		Not detected
RNase		Not detected
PROTEASE		Not detected
IDENTIFICATION		TO PASS TEST

Test	Specification	
	Min	Max
RETEST DATE		
DATE OF MANUFACTURE		

***Spectrum Chemical Mfg Corp***

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<b><i>Corporate Headquarters:</i></b>	<b><i>West Coast Facility:</i></b>
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000