

# BIOSPECTRA

100 Majestic Way, Bangor, PA 18013 / [www.biospectra.us](http://www.biospectra.us)

## TRIS HCl

### SPECIFICATION SHEET

#### BIO PHARMA GRADE / TH4220

$\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3 \cdot \text{HCl}$  \* F.W. 157.60 g/mol \* CAS# 1185-53-1

ANALYSIS		SPECIFICATIONS
Absorbance (1M)	280 nm	0.06 a.u. max.
Appearance and Color		White / Crystals
Assay, Dried		99.5% min.
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Heavy Metals		2 ppm max.
Identification (IR)		Passes Test
Insoluble Matter		0.001% max.
LOD at 105 °C		0.5% max.
Melting Range		150 – 153°C
pH (0.5M)		4.0 – 5.0
pK <sub>a</sub>		8.0 – 8.4
Residue on Ignition		0.1% max.
Solubility (1M)		Passes Test
Trace Metals	Arsenic (As)	5 ppm max.
	Calcium (Ca)	5 ppm max.
	Copper (Cu)	5 ppm max.
	Iron (Fe)	5 ppm max.
	Lead (Pb)	5 ppm max.
	Magnesium (Mg)	5 ppm max.