

BIOSPECTRA

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MES MONOHYDRATE SPECIFICATION SHEET BIO PHARMA GRADE / ME4220 $C_6H_{13}NO_4S \cdot H_2O$ Δ F.W. 213.25 g/mol. Δ CAS# 145224-94-8

ANALYSIS		SPECIFICATIONS
Absorbance (1M)	260 nm	0.1000 a.u. max.
	280 nm	0.1000 a.u. max.
Appearance and Color		White / Crystals
Assay		99.0% min.
Chloride		0.005% max.
Color (1M, Alkaline)		Colorless
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Heavy Metals		2 ppm max.
Identification (IR)		Passes Test
pH (5% solution)		3.0 – 3.5
pH (0.5M)		2.5 – 4.5
pK _a		5.9 – 6.3
Residue on Ignition		0.05% max.
Solubility (5%)		Passes Test
Sulfate		0.005% max.
Trace Elements	Arsenic (As)	5 ppm max.
	Copper (Cu)	5 ppm max.
	Iron (Fe)	5 ppm max.
	Lead (Pb)	5 ppm max.