

BIO SPECTRA

100 Majestic Way, Bangor, PA 18013 / www.biospectra.us

HEPES SPECIFICATION SHEET BIO EXCIPIENT GRADE / HE3220

$C_8H_{18}N_2O_4S$ ▲ F.W. 238.30 g/mol. ▲ CAS# 7365-45-9

ANALYSIS		SPECIFICATIONS
Absorbance	250 nm	0.0500 a.u. max.
	260 nm	0.0500 a.u. max.
	280 nm	0.0800 a.u. max.
Appearance and Color		White / Crystals
Assay, Dried Basis		99.5% min.
Chloride		0.005% max.
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Heavy Metals		1 ppm max.
Identification (IR)		Passes Test
Insoluble Matter		0.01% max.
Loss on Drying		0.5% max.
pH (5% Soln.)		5.0 – 6.5
pK _a		7.45 – 7.65
Residue on Ignition		0.1% max.
Solubility		Passes Test
Sulfate		0.005% max.
Trace Metals	Arsenic (As)	5 ppm max.
	Copper (Cu)	5 ppm max.
	Iron (Fe)	5 ppm max.
	Lead (Pb)	5 ppm max.