

Specification

BES for buffer solutions

A1062

Physical Description:	Solid
Product Code:	A1062
Product Name:	BES for buffer solutions
Specifications:	<p>Assay (titr.): min. 99 %</p> <p>pH (1 %; H₂O): 4.1 - 4.5</p> <p>Heavy metals (as Pb): max. 0.0005 %</p> <p>Water: max. 1 %</p> <p>A (1 cm/10 % in H₂O)</p> <p>260 nm: max. 0.05</p> <p>280 nm: max. 0.03</p>
WGK:	1
Storage:	RT
Molecular Formula:	C ₆ H ₁₅ NO ₅ S
M:	213.26 g/mol
CAS:	10191-18-1
EINECS:	233-465-5
CS:	29221900
Comment	<p>Reference (4) describes a simple calcium phosphate transfection protocol that achieves highly efficient transformation of mammalian cells with a BES-buffered salt solution (50 mM BES, pH 6.95; 280 mM NaCl; 1.5 mM Na₂HPO₄). This buffer substitutes for the commonly used Hepes-buffered saline. One of the crucial factors for obtaining efficient transformation is the pH (6.95) of the buffer.</p>
Bibliography	<p>(1)Good, N.E. <i>et al.</i> (1966) <i>Biochemistry</i> 5, 467-477Hydrogen ion buffers for biological research. (2)Good, N.E. & Izawa, S. (1972) <i>Methods Enzymol.</i> 24, 53-68Hydrogen ion buffers. (3)Ferguson, W.J. <i>et al.</i> (1980) <i>Anal. Biochem.</i> 104, 300-310Hydrogen ion buffers for biological research. (4)Chen, C. & Okayama, H. (1987) <i>Mol. Cell. Biol.</i> 7, 2745-2752High-efficiency transformation of mammalian cells by plasmid DNA.</p>

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