

Innovation Centre, Norwich Research Park, Colney, Norwich, UK. NR4 7GJ. Tel: +44 (0) 1603 673591

MATERIAL SAFETY DATA SHEET

Section 1.	Identification of Substance / Preparation:
	Topoisomerase IV (<i>E. coli</i>) Enzyme/Protein and Supercoiled pBR322 DNA in buffer solution
	and buffers/solutions for use with Topoisomerase IV (<i>E. coli</i>) relaxation Kits.
	Catalogue Numbers: R4001, R4002, R4003 and R4004
Section 2:	Composition / Information on Ingredients:
	Each product package contains an aqueous solution and the volume contained therein varies from 0.02-1ml.
	1)Topoisomerase IV Enzyme (E. coli), Catalogue Numbers T4001, T4002, T4003, T4004
	Active Ingredient: Topoisomerase IV (<i>E coli</i>) Enzyme, CAS: None (EC. 5. 99.1.3)
	40% (w/v) Glycerol, CAS: 56-81-5
	0.95% (w/v) HEPES-KOH (mix of N-[2-Hydroxyethyl]piperazine-N'-[2-ethanesulfonic acid] and
	potassium hydroxide), (pH7.6), CAS: 82207-62-3
	2% (w/v) Potassium glutamate, CAS: 6382-01-0
	0.015% (w/v) Dithiothreitol (DTT), CAS: 3483-12-3
	0.03% (w/v) EDTA, CAS: 6381-92-6
	2) Dilution Buffer Catalogue Number TD002
	40% (w/v) Glycerol, CAS: 56-81-5
	0.95% (w/v) HEPES.KOH (pH7.6), CAS: 82207-62-3
	2% (w/v) Potassium glutamate, CAS: 6382-01-0
	0.015% (w/v) Dithiothreitol (DTT), CAS: 3483-12-3
	0.03% (w/v) EDTA, CAS: 6381-92-6
	3) Assay Buffer (Supplied X5) Catalogue Numbers TR001
	4.75% (w/v) HEPES-KOH CAS 82207-62-3
	0.15% (w/v) Dithiothreitol (DTT), CAS: 3483-12-3
	10.0% (w/v) Potassium Glutamate, CAS: 6382-01-0
	1.07% (w/v) Magnesium Acetate, CAS: 16674-78-5
	0.25% (w/v) Adenosine 5´-triphosphate disodium salt, CAS: 987-65-5
	0.025% (w/v) Albumin, CAS: 9048-46-8
	4) Supercoiled pBR322 DNA (Catalogue Numbers S5001, S2502, S5003 and S1004)
	0.12% (w/v) Tris-HCI (mix of Tris (hydroxymethyl) aminomethane / hydrochloric acid),
	CAS 77-86-1
	0.03% (w/v) Ethylene diamine tetraacetic acid, tetrasodium salt (EDTA), CAS 6381-92-6
	5) GSTEB (Supplied at 10X)
	6% (w/v) Tris-HCl, (pH 7.5) CAS: 77-86-1

50% (wiv) Glycerol, CAS: 56-81-5 0.1%(wiv) Bromophenol Blue CAS 115-39-9 Section 3: Hazards Identification: Ingredients are either not classified as dangerous according to EC Directives, or not considered to be hazardous in the very low quantities/concentrations present. Section 4: First Aid Measures: In case of contact with skin, wash immediately with soap and water. In case of contact with eyes, flush with water and seek medical advice if discomfort persists. Section 5: Fire Fighting Measures: Extinguishing media: water spray, carbon dioxide, dry chemical powder or foam as required. Section 6: Accidental Release Measures: Wear appropriate protective clothing. Absorb onto sand or vermiculite and place in closed container for disposal. Section 7: Handling and Storage: No special precautions necessary. Section 8: Exposure Controls / Personal Protection: Wear glyces and appropriate protective clothing to avoid contact with skin and eyes. Section 9: Physical and Chemical Properties: Aqueous, colourless liquid. Section 10: Stability and Reactivity: Stable. Glycerol incompatible with oxidizing agents, halogens, ethylene oxide, nitric acid/sulphuric acid. The possibility of reaction with other substances cannot be excluded. Section 11: Toxicological Information: No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention. Section 13: Disposel On in accordance with local rules and regulations. Section 14: Transport Information: Not subject to transport regulations. Section 15: Regulatory Inform		3% (w/v) EDTA, CAS: 6381-92-6
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shall only be used as a guide. Inspiralis Ltd. and it's governors, officers, employees and		

agents shall not be held liable for any claims brought by third parties due to damage resulting	
from handling or from contact with the above product.	

Version 24.1

Revision Date: 01.03.2025