

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: |
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| | 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