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MATERIAL SAFETY DATA SHEET

Section 1.	Identification of Substance / Preparation:
	Topoisomerase II (human expressed in <u>baculovirus</u>) Enzyme/Protein and kDNA in buffer solution and buffers/solution for use with Topoisomerase II $\underline{\alpha}$ and $\underline{\beta}$ enzyme (human expressed in <u>baculovirus</u>) Decatenation Kits
	Catalogue Numbers: HTK201, HTK202, HTK203, HTK204, HTKB201, HTKB202, HTKB203 and HTKB204
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 II Enzyme (human expressed in baculovirus) Catalogue Numbers HT201, HT205, HT210, HT220, HTB201, HTB205, HTB210 and HTB220 Active Ingredient: Topoisomerase II α and β (human expressed in baculovirus) Enzyme, CAS: None (EC.5. 99.1.3) 0.6% (w/v) Tris-HCl (pH 7.9) CAS 77-86-1 0.6% (w/v) NaCl (Sodium Chloride), CAS: 7647-14-5 0.015% (w/v) DTT (Dithiothreitol), CAS: 3483-12-3 0.015% (w/v) EDTA (Ethylene diamine tetraacetic acid, tetrasodium salt), CAS: 6381-92-6 50% (w/v) Glycerol, CAS: 56.81.5 0.005% (w/v) Albumin, CAS: 9048-46-8
	2) Dilution Buffer Catalogue Number HTD202 0.6% (w/v) Tris-HCl (pH 7.9) CAS 77-86-1 0.6% (w/v) NaCl, CAS: 7791-18-6 0.015% (w/v) DTT, CAS: 3483-12-3 0.015% (w/v) EDTA, CAS: 6381-92-6 50% (w/v) Glycerol, CAS: 56.81.5 0.005% (w/v) Albumin, CAS: 9048-46-8
	3) Assay Buffer (Supplied X10) Catalogue number HTA202 6.0% (w/v) Tris-HCl (pH 7.9), CAS 77-86-1 7.0% (w/v) NaCl, CAS: 7791-18-6 2.0% (w/v) MgCl ₂ (Magnesium Chloride), CAS: 7791-18-6 0.8% (w/v) DTT, CAS: 3483-12-3 0.1% (w/v) Albumin, CAS: 9048-46-8
	4) ATP (30X stock) 1.6% (w/v) ATP, CAS:987-65-5
	5) kDNA (Catalogue numbers K2001, K2002, K2003 and K2004) 0.12% (w/v) Tris-HCl 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 3% (w/v) EDTA, CAS: 6381-92-6 50% (w/v) Glycerol, CAS: 56-81-5 0.1%(w/v) 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 gloves 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 The possibility of reaction with other substances cannot be excluded. Section 11: Toxicological Information: Some constituents may cause skin irritation and eye irritation. Section 12: Ecological Information: No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention. Section 13: Disposal Considerations: Dispose of in accordance with local rules and regulations. Section 14: Transport Information: Not subject to transport regulations. Section 15: Regulatory Information: Ingredients are either not classified as dangerous according to EC Directives, or not considered to be hazardous in the very low quantities/concentrations present. Caution – products for research use only, substances not fully tested. Section 16: Other Information: The above information is believed to be correct but does not purport to be all-inclusive and

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