



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 II (yeast expressed in *Saccharomyces cerevisiae*) Enzyme/Protein in buffer solution and buffers/solution for use with Topoisomerase II (yeast expressed in *Saccharomyces cerevisiae*) Catalogue Numbers: YT201 and YT205

### 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** (yeast expressed in *Saccharomyces cerevisiae*)

Catalogue Numbers YT201 and YT205. Active Ingredient: Topoisomerase II (yeast expressed in *Saccharomyces cerevisiae*) Enzyme, CAS: None ( EC 5. 99.1.3 )

0.6% (w/v) Tris-HCl (mix of Tris (hydroxymethyl) aminomethane / hydrochloric acid)

(pH 7.9) CAS 77-86-1

1.2% (w/v) NaCl (Sodium Chloride), CAS: 7647-14-5

0.075% (w/v) DTT (Dithiothreitol), CAS: 3483-12-3

0.03% (w/v) EDTA (Ethylene diamine tetraacetic acid tetrasodium salt), CAS: 6381-92-6

50% (w/v) Glycerol, CAS: 56.81.5

#### **2) Dilution Buffer** Catalogue Number YTD202

0.6% (w/v) Tris-HCl (pH 7.9) CAS 77-86-1

1.2% (w/v) NaCl, CAS: 7647-14-5

0.075% (w/v) DTT, CAS: 3483-12-3

0.03% (w/v) EDTA, CAS: 6381-92-6

50% Glycerol, CAS: 56.81.5

#### **3) Assay Buffer (Supplied X5)** Catalogue Number YTA202

1.21% (w/v) Tris-HCl (pH 7.9) CAS 77-86-1

7.5% (w/v) Potassium chloride (KCl), CAS: 7791-18-6

0.47% (w/v) Magnesium chloride ( $Mg_2Cl$ ), CAS: 7786-30-3

20% (w/v) Glycerol, CAS: 56.81.5

**4) ATP (30X stock)**

1.6% (w/v) ATP, CAS:987-65-5

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 acid.

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 shall only be used as a guide. Inspiralis Ltd. and its 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.

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