

Cytoclear Cytoplasm Remover

Cat GGS-JL-004

Pack size, 1ml vial

Patent Pending

GTIN-13: 5060174130113

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Revision date: June 2015

ProCell™ Reagents**PRODUCT DESCRIPTION**PRODUCT DESCRIPTION

Cytoclear is a unique product (consisting of a mixture of protein detergents) which can quickly dissolve and remove persistent cytoplasm (mainly caused by inadequate hypotonic treatment) during the methanol: acetic acid fixation stage of the chromosome harvesting procedure. In particular, it dissolves the lipid and glycoprotein structure of which cytoplasm is mainly composed. Clumped metaphases, which would normally be impossible to analyse, can now be restored.

PROCEDURE

There are two protocols for Cytoclear. In order to integrate Cytoclear into your laboratory as simply as possible, we recommend that you try Procedure 1 first.

PROCEDURE 1

1. At the first fix step in the harvest, add 5ul of Cytoclear per ml of methanol: acetic acid (normally 3:1 ratio or whatever is the laboratory standard ratio), as normally used in your harvest procedure.
2. Stand for 5 minutes
3. Centrifuge for 5 minutes at 1000rpm
4. Continue the harvest as normal.

PROCEDURE 2

For cultures that have yielded poor quality metaphases.

1. Identify problem cultures by checking freshly made slides under phase contrast
2. Take the problem culture, add 5ul of Cytoclear per ml of methanol: acetic acid (normally 3:1 ratio or whatever is the laboratory standard ratio), as normally used in your harvest procedure to the resuspended pellet.
3. Stand at RT for 10 minutes.
4. Spin down, then refix.
5. Make slides

QUALITY CONTROL

All batches are tested for its ability to break down glycoprotein cytoplasm and are assessed using phase contrast microscopy.

STORAGE

Store the product in a refrigerator for no more than 12 months.

Never heat or freeze.

IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product: Cat# GGS-JL-004 **Cytoclear Cytoplasm Remover**

A Laboratory Reagent for research purposes only. **Strictly Not for Human Therapeutic Use**

Company details:

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The Printworks
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United Kingdom

Combined Telephone and Fax Number: +44 (0) 1244 757 155

COMPOSITION AND COMPONENT DATA

Proprietary product containing protein solubilising surfactants and enzymes dissolved in phosphate buffered saline.

HAZARDS IDENTIFICATION

WARNING: Harmful with eye contact. Protective glasses must be worn at all times when using Cytoclear.

See [Regulatory Information](#) at the end of the MSDS for full R, S H, and P details.

FIRST-AID MEASURES

AFTER INHALATION

Not applicable

AFTER EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention immediately.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. If ingested - Give large quantities of water.

AFTER SKIN CONTACT

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

FIRE FIGHTING MEASURES

Not flammable.

ACCIDENTAL RELEASE MEASURES

Wear a lab coat, rubber gloves and eye protection, wipe with paper tissues and place in plastic bag for proper disposal.

HANDLING AND STORAGE

Keep container tightly closed when not in use.

Store in refrigerator away from any light at temperature not exceeding 6°C

Never freeze.

Wash hands after handling.

EXPOSURE CONTROL AND PERSONAL PROTECTION

Only work in a Class 2 Biological Safety Cabinet.

Always wear a lab coat, rubber gloves and eye protection

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid to slightly yellow

Boiling Point: As for water

Vapour Pressure (pascals): As for water

Specific Gravity: 1.2 (Water = 1)

Flashpoint: N/A

Flammability Limits (%): N/A

TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Not a known carcinogen.

STABILITY AND REACTIVITY

Product is stable

ECOLOGICAL INFORMATION

Data is not yet available.

DISPOSAL CONSIDERATIONS

Use approved government contractor.

Observe all International, National, State and Local environmental laws.

TRANSPORT INFORMATION

Does not contain DOT classified ingredients.

Not regulated as a hazardous material.

REGULATORY INFORMATION

R 41 – Risk of serious damage to eyes

S 39 – Wear eye/face protection

S 36/ 37 – Wear suitable protective clothing and gloves

S 7/ 47 – Keep container tightly closed and at temperature not exceeding 6°C

OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Genial Genetic Solutions Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.