

**Pre-Hypotonic Solution****ProCell™ Reagents**

Cat GGS-JL-007

Pack size Supplied: 5mls stock solution

Patent Pending

**GTIN-13:** 5060174130083

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**PRODUCT DESCRIPTION****PRODUCT DESCRIPTION****Pre-Hypotonic Solution**

Is to be used before the hypotonic stage of a blood or bone marrow harvest. Pre-hypotonic Solution makes the hypotonic step more effective by circumventing the tendency of chromosomes to clump or to under-spread. The clumping of metaphases during the harvesting procedure often results in the loss of useful metaphases or the loss of entire cultures. Procedures such as FISH that require good well spread metaphases are often hampered by this problem. Pre-Hypotonic Solution was developed to address this clumping problem. Optimal metaphase swelling can therefore subsequently be achieved by your hypotonic solution.

**PROCEDURE****Pre Hypotonic Solution Preparation**

1. Add the contents of the supplied 5 ml vial to a 1000 ml volumetric flask
2. Bring to 1000ml with milli-Q water or reverse osmosis-filtered deionised water

**Procedure 1**

1. After colchicine/colcemid/Metaphase Arresting Solution incubation is complete, spin down the culture discarding the supernatant.
2. Mix the cell pellet well and add 10 ml of culture media, followed by 1 ml of Pre Hypotonic Solution. Mix well.
3. Centrifuge for 10 minutes at 1000 rpm
4. Discard the supernatant; proceed with the harvest as normal from, and including, the hypotonic step.

**Procedure 2**

1. Pipette out the old medium.
2. Add 10mls of fresh medium, followed by 1ml of prehypotonic.
3. Wait for 10 minutes.
4. Pipette out the prehypotonic.
5. Harvest as usual.

**QUALITY CONTROL**

All batches are tested on established lymphoid/myeloid cell-lines with spreading and morphology assessed using phase contrast microscopy.

**STORAGE**

Store product at 4°C for not more than 12 months.  
Never heat or freeze the product.  
For laboratory research use only.

**IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY****Product:** Cat# GGS-JL-007 **Pre-Hypotonic Solution****A Laboratory Reagent** for research purposes only. **Strictly Not for Human Therapeutic Use****Company details:**

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## COMPOSITION AND COMPONENT DATA

Proprietary product containing phosphate balanced saline and enzymes/coenzyme mixture.

### HAZARDS IDENTIFICATION

Non-hazardous

## FIRST-AID MEASURES

### AFTER INHALATION

Remove from exposure, if difficulty in breathing seek medical advice.

### AFTER EYE CONTACT

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

### AFTER INGESTION

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

### 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 applicable

### ACCIDENTAL RELEASE MEASURES

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

### HANDLING AND STORAGE

Keep container tightly closed when not in use.

Stored in dark container at 4°C

Correctly stored product is stable at 4°C for 12 months.

Do not freeze product, or allow to rise above 4°C

## EXPOSURE CONTROL AND PERSONAL PROTECTION

Only work in a Class 2 Biological Safety Cabinet

Always wear a lab coat and rubber gloves.

Wash hands after handling.

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid

Boiling Point: As for water

Vapour Pressure (pascals): As for water

Specific Gravity: 1.2

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

Conditions to avoid: Not available

Incompatibility: Not available

Hazardous Decomposition By-products: Nil

Hazardous Polymerisation: Not available

## ECOLOGICAL INFORMATION

### **Toxicology**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### DISPOSAL CONSIDERATIONS

Use approved government contractor.

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

### **Contaminated packaging**

Dispose of as unused product.

## TRANSPORT INFORMATION

Does not contain DOT classified ingredients.

Not regulated as a hazardous material.

## REGULATORY INFORMATION

S 36/ 37 – Wear suitable protective clothing and gloves

S 7/ 47 – Keep container tightly closed and at temperature not exceeding 4°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.