

Buffered Hypotonic

Cat GGS-JL-006/b

ProCell™ Reagents

Pack size - powder supplied to make up 1000mls working solution

Patent Pending

GTIN-13: 5060174130090

Date of original issue: January 2012

Date of current issue: January 2015

Revision date: June 2015

PRODUCT DESCRIPTION

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Buffered Hypotonic Solution

Is a hypotonic solution developed for bone marrow specimens. It has been found to achieve good metaphase swelling (spreading) from a wide range of sample types and significantly increases the number of useful metaphases in leukaemic bone marrow cultures when compared to the standard 0.075M KCL hypotonic. It contains 0.4% KCL with HEPES.

PROCEDURE

1. Add the powdered contents of the supplied bottle of Buffered Hypotonic Solution product to 1000 mls of distilled water.
2. Adjust to pH 7.4 with 5N NaOH and store at 4°C in a clean glass bottle, until ready to use, noting down the date on the bottle.
3. During harvest replace your existing hypotonic solution with *Buffered Hypotonic Solution*
4. Replace your existing hypotonic and incubate cells at 37°C for a maximum of 30 minutes.

QUALITY CONTROL

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

STORAGE

Prepared working solution should be stored at 4°C, and stored for no longer than 2 weeks.

Powdered product should be stored for no longer than 12 months at room temperature.

Never heat or freeze.

IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product: Cat# GGS-JL-006/a **Buffered Hypotonic Solution (powder to make 250 mls)**

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 potassium chloride 0.075 Molar pH 7.4 with Hepes.

HAZARDS IDENTIFICATION

Not harmful

FIRST-AID MEASURES

AFTER INHALATION

Remove from exposure immediately and seek medical advice.

AFTER EYE CONTACT

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

AFTER INGESTION

If swallowed induce vomiting as directed by medical personnel, provide water once vomiting has finished. Never give anything by mouth to an unconscious person. 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. Store product at 4C.

Correctly stored, the product is stable for 12 months, prepared working solution can be used for up to 2 weeks when correctly stored.

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: soft white powder

Boiling Point: As for water (prepared working solution)

Vapour Pressure (pascals): As for water (prepared working solution)

Specific Gravity: 1.4 (Water = 1) (prepared working solution)

Flashpoint: N/A

Flammability Limits (%): N/A

Incompatible with strong oxidising agents

Incompatible with acids

Incompatible with freezing.

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

REACTIVITY DATA

Not applicable

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.

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.