
Working Instructions/ preparation

SECTION 1: Identification of the Substance/ Mixture and of the Company/ Undertaking

1.1. Product identifier

- Product name: **Optimal Hypotonic Solution (250mls)**
- Product code: **GGG-JL-005/a**
- Pack size: **Supplied to make 250mls working solution**
- GTIN-13: **5060174130106**
- GMDN: **30621 'Chromosome Culture Kit'**
- REACH: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2. Relevant identified uses of the substances or mixture and uses advised against

Recommended Use: In Vitro Diagnostics
Identified uses: Laboratory chemicals

Optimal Hypotonic Solution

Is a hypotonic solution which achieves optimum metaphase swelling (spreading) from difficult cells prone to either under-spread or overspread where conventional hypotonics achieve inadequate swelling. The solution increases cell volume allowing the chromosome more room to spread, well spread chromosomes with few cross-overs greatly aid analysis. Developed for acute leukaemia bone marrow and tumour cells, also useful with problem blood and other problematic sample types.

1.3. Details of the supplier of the safety data sheet

- Registered company name: Genial Helix Limited
- Address: Genial Helix, Evans Business Centre, Minerva Avenue, Off Sovereign Way, Chester, Flintshire, CH1 4QL, U.K.
- Telephone: +44 (0)1244 757 155
- Email: info@genialhelix.com
- Website: www.genialhelix.com

1.4. Emergency telephone number: +44 (0)1244 757 155

- Emergency Response Organisation: Genial Helix Limited | www.genialhelix.com

SECTION 2: Preparation

1. Add the contents of the supplied bottle to a 250ml volumetric flask.
2. Bring to 250ml with milli-Q water or reverse osmosis-filtered deionised water.
3. Store at 4°C in a clean glass bottle, noting down the date on the bottle.
4. During harvest replace your existing hypotonic solution with Optimal Hypotonic Solution.
5. Replace your existing hypotonic and incubate cells at 37 degrees C for a maximum of 30 minutes.
6. Add approximately 0.5ml (several pipette drops) of fresh fixative (normally 3:1 methanol:acetic acid ratio or whatever is the laboratory standard ratio) before centrifuging.
7. Continue with your usual harvesting protocol.

QUALITY CONTROL

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

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genial Helix Ltd and its Affiliates will not be held liable for any damage resulting from handling or from contact with the above product.
