Working Instructions/ preparation – ONLY – NOT A SAFETY DATA SHEET

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

1.1. Product identifier

- Product name: **Chromosome Resolution Additive**
- Product code: **GGS-JL003a**
- Pack size: **1ml vial**
- 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

Identified uses: Laboratory chemicals, Manufacture of substances

Chromosome Resolution Additive
Is a formulation that consistently prevents chromosome contraction and encourages chromosome elongation by loosening the chemical bonding within the supercoiled structure. It has been designed for use with tissues resistant to existing prophase techniques such as bone marrows and solid tumours.

1.3. Details of the supplier of the safety data sheet

- Registered company name: Genial Helix Limited
- Address: Genial Helix, CoWorkz 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 0.1 ml of CRA **(working solution – see below)** to each culture containing 10ml of culture medium (see note above).
2. Incubate at 37˚C for 90 mins (see note below).
3. Harvest as usual.

- Lengthy exposure to Chromosome Resolution Additive can lead to a reduced mitotic index. We recommend that laboratories try the following timings:

  Start with Chromosome Resolution Additive incubation for 90 mins prior to harvest.

  This can be decreased down to 30 mins if desired.

- Chromosome Resolution Additive can be added pre or post colchicine.
- If laboratories want to leave Chromosome Resolution Additive in for much longer time periods, they should dilute (to between a quarter to an eighth) the concentration of Chromosome Resolution Additive.

To make a working solution: dissolve 0.1ml of CRA stock in 9.9ml of injection quality water.

Only use 0.1ml of working solution per 10ml culture. Working solution must be used once made and never stored.

Scientists can make up smaller working volumes of CRA but should always maintain the above ratio i.e. 1 part CRA in 99 parts injection quality water.

QUALITY CONTROL: Batch testing is done on cancer cell lines scoring chromosome length against a suitable control.

- IMPORTANT -

Please refer to the SDS for full safety and storage details

Further 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. 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.