A Sysmex Group Company

CytoCell

Acro-P-Arm Probe

REF: LPE NOR-A

Analyte Specific Reagent: Analytical and performance characteristics are not established.

Fluorescence *In Situ* Hybridisation (FISH) is a technique that allows DNA sequences to be detected on metaphase chromosomes or in interphase nuclei from fixed cytogenetic samples. The technique uses DNA probes that hybridise to entire chromosomes or single unique sequences, and serves as a powerful adjunct to classic cytogenetics. Recent developments have meant that this valuable technique can now be applied as an essential tool in prenatal, haematological and pathological chromosomal analysis. Target DNA, after fixation and denaturation, is available for annealing to a similarly denatured, fluorescently labelled DNA probe, which has a complementary sequence. Following hybridisation, unbound and non-specifically bound DNA probe is removed and the DNA is counterstained for visualisation. Fluorescence microscopy then allows the visualisation of the hybridised probe on the target material.

Probe Specification
NOR (Nucleolar Organizer Regions) probe is specific for rRNA genes located in the short arms of the acrocentric chromosomes (13, 14, 15, 21 and 22), labelled in red.

Materials Provided
Probe: 100µl per vial
The probe is provided in hybridisation solution (Formamide; Dextran Sulphate; SSC) and is ready to use.

Warnings and Precautions
1. For professional use only.
2. Wear gloves when handling DNA probes.
3. Probe contains formamide, which is a teratogen; do not breathe fumes or allow skin contact. Wear gloves, a lab coat, and handle in a fume hood. Upon disposal, flush with a large volume of water.
4. All hazardous materials should be disposed of according to your institution's guidelines for hazardous waste disposal.

Storage and Handling
The probe should be stored between -25ºC to -15ºC in a freezer until the expiry date indicated on the kit label. The probe vial must be stored in the dark.

Additional Information
For additional product information please contact the CytoCell Technical Support Department.
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Patents and Trademarks
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