



A Sysmex Group Company



DiGeorge/VCFS N25 Region and 22q13.3 Region Probe

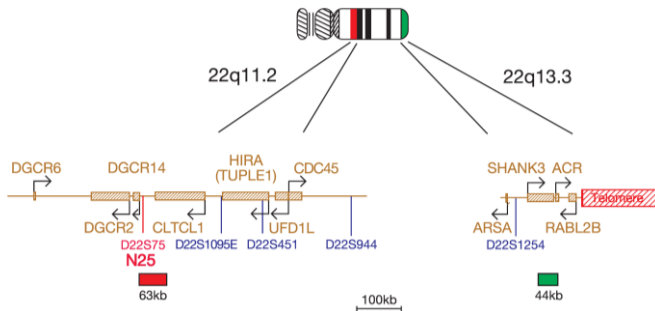
REF: LPU 010-SA/LPU 010-A

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

N25, 22q11.2, Red
N85A3, 22q13.3, Green



The N25 probe is 63kb, labelled in red and covers a region including the D22S75 marker and the centromeric end of the CLTCL1 gene. The N85A3 (44kb), labelled in green, is located within 22q13.3 band and covers the telomeric end of the SHANK3 gene allowing for identification of the most distal 22q13.3 deletions. The two unique sequences provide control probes for each other and allow identification of chromosome 22.

Materials Provided

Probe: 50µl per vial or 100µl per vial
Probe concentration: Amount of red probe 1.97-3.32ng/µl
 Amount of green probe 3.43-5.13ng/µl

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. Dispose of all hazardous materials according to your institution's guidelines for hazardous waste disposal.
5. Operators must be capable of visually distinguishing between red, blue and green.

Storage and Handling

The kit should be stored between -25°C to -15°C in a freezer until the expiry date indicated on the kit label. Store the probe vial in the dark. Ensure that exposure of the probe to laboratory lights is limited at all times.

Known Cross-Reactivity

No known cross-reactivity.

Additional Information

For additional product information please contact the CytoCell Technical Support Department.

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Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



GHS07

GHS08

Signal word (CLP): Danger

Hazardous ingredients: Formamide <100%

Hazard statements (CLP):

H315 – Causes skin irritation
 H319 – Causes serious eye irritation
 H360 – May damage fertility or the unborn child

Precautionary statements (CLP):

P202 – Do not handle until all safety precautions have been read and understood
 P280 – Wear eye protection, protective clothing, protective gloves
 P302+P352 – IF ON SKIN: Wash with plenty of soap and water
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P308+P313 – IF exposed or concerned: Get medical advice/attention
 P362+P364 – Take off contaminated clothing and wash it before reuse
 P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Refer to Safety Data Sheet for more information.

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Patents and Trademarks

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