**User Manual for Cell Preservation Solution**

【**Product Name**】Cell preservation solution

【**Cat. Name**】E-prep solution (GYN)

【**Specification**】20ml×25 bottles

【**Intended use**】For the preservation and transportation of cells taken from human body, for in vitro analysis and detection purposes only, not for therapeutic use.

【**Principle of detection**】After collecting cervical secretion and obtaining exfoliated cells, the cells are immersed into the reagent for treatment. The fixed components in the reagent can fix the cell structure, preserve the cell morphology and avoid the cleavage effect of protease on the cells inside the cells and the digestion effect of nucleic acid by nucleic acid digestive enzyme, so as to preserve the integrity of proteins and nucleic acids for the subsequent analysis. Cell coating agent, osmotic pressure maintenance agent, preservative, can preserve the integrity of cells, no cell lysis and cell swelling phenomenon, can make the cells easy to stain, improve the clarity of cell preparation.

【**Main Components**】

|  |  |  |
| --- | --- | --- |
| Components | Content (%) | Vendors |
| Ethanol | 27~31 | Sigma-Aldrich |
| distilled water | 64~70 | Sigma-Aldrich |
| Acetone | 1.5~2.2 | Sigma-Aldrich |
| polyethylene glycol | 1.3~1.8 | Sigma-Aldrich |
| Malonyltriol | 0.8~1.2 | Sigma-Aldrich |
| trimethylolaminomethane | 0.5~0.55 | Sigma-Aldrich |
| Dithiothreitol | 0.2~0.5 | Sigma-Aldrich |

【**Storage conditions & Shelf life**】Stored in room temperature, moisture-proof, sun-proof, sealed in a cool place; expiration date 3 years. After opening the bottle, store at 2-8℃ for 30 days.

【**Sample Requirements**】

1. It must be ensured that the collection brush is clean and free of stains during the collection of the sample.

2. Ensure that the sample is placed directly into the preservation solution after removal.

3. The storage environment of the cell preservation solution should not exceed 30℃.

【**Test Method**】 **◎ Gynecological test（GYN）**

1. Collect the sample with a brush.

2. The collected samples are placed in a cell preservation solution.

3. The collected samples are placed in a vibrator for at least 15 minutes and then left to stand.

4. After writing the patient's name and registration number on the slide, insert it into the E-prep mainframe slide jack.

5. Insert the gynecological filter into the E-prep mainframe filter jack.

6. After 15 minutes of standing, pour an appropriate amount of the test cell preservation solution into the filter.

7. Cell specimens are prepared using the programmed procedure of the E-prep mainframe.

8. Produced cell specimens were stained by fixing the specimens directly into 95 per cent alcohol and observing the cell specimens.

\* For gynecological testing, if blood or mucus is seen, pour in the cytolyte solution and perform the centrifugal separation process before the third stage.

【**Limitations of the test**】Acetone reagent should be added to 1% to 5% of the samples.

【**Performance specification**】

PH value should be in the range of 6.5~7.5.

Ethanol content should be in the range of 27% to 31%;

Preservation effect: the cell samples preserved by the preservation solution, the cell morphology is intact, without deformation and damage, the cell nucleus is clear.

Preservation period: The cell samples preserved by the preservation solution for 30 days, the cell morphology is intact, no deformation and damage, the cell nucleus is clear.

【**Precautions**】

1) Keep in an area away from water.

2) Store in an area free from dust and moisture.

3) Store in an area away from chemicals and gas.

4) When storing the product for a long period of time, keep it away from direct sunlight.

5) The contents of this product should not be consumed or come into contact with skin

【**General Information**】

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