

BacterLab Division



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BIOCHEMICAL REAGENT

BacterTest™ KCl

Hypoparathyroid solution is used to prepare blood lymphocyte chromosomes.

Code: 06030



1. INTENDED USE

BacterTest™ KCl is used to prepare blood lymphocyte chromosomes.

2. PRINCIPLES

BacterTest™ KCl is mainly used in the field of cytogenetics, especially for the preparation of blood lymphocyte chromosomes for applications such as karyotyping and FISH. This solution is hypotonic, which helps the cells swell, separating the chromosomes for easier observation.

3. TYPICAL COMPOSITION

For 100 milliliters of reagent

Potassium Chloride (KCl)	0,559 g
Distilled water	100 mL

4. PREPARATION

The reagent are ready-to-use, no preparation required.

5. INSTRUCTIONS FOR USE

- Sample preparation: Blood lymphocytes are taken and placed in 0.075 M KCl solution.
- Hypotonic effect: Due to the lower salt concentration inside the cells, water will move into the lymphocytes, causing them to swell.
- Preparation for analysis: This swelling helps separate the chromosomes from each other, making it easier for researchers to observe and analyze the cell genome in detail..

6. QUALITY CONTROL

BacterLab ensures the quality of each product batch by testing:

Appearance	Homogeneous in color, no sediment, stratification or foreign matter
Color	Colorless, transparent

7. STORAGE AND TRANSPORT CONDITIONS

- Storage: 8 – 25°C, avoid light.
- Transportation: Ambient temperature.

8. PACKAGING

- Packaging: 100 mL/ bottles or according to the customer's request..

9. SHELF LIFE

- Expiration Date: 12 months from the manufacturing date.

10. BIBLIOGRAPHY

- Margaret J. Barch, (1991), “The ACT Cytogenetics Laboratory Manual”, Raven press.