Enzymatic Cleaner Reagent Kit

(For cleaning of Hematology Cell Counter)

CLINICAL SIGNIFICANCE

Enzymatic Cleaner reagent kit is a vitro diagnostics reagent used to clean the tubing and critical parts of the semi auto/Fully automatic analyzer.
Enzymatic Cleaner reagent kit is effective in breaking down the proteins and blood debris by reactions. Sodium hydroxides are commonly used in the cleaning reagents for dissolving or dispersing the debris and large organic molecules. With the good moist function, it also can discharge bubbles from entire measurement apparatus and provide the correct working performance.

PRINCIPLE

Enzymatic Cleaner reagent kit is a solution contains mainly sodium hydroxide to emulsifying the fat, distribute the solidified dirt and transform the protein into a water-solubility amino acid to maintain the cleanness of pipelines and flow-cell.
When whole blood runs through Automatic hematology analyzer, it leaves protein and lipid residues that, over time, can clog the analyzer. The cleaner keeps semi auto/Fully automatic analyzer clean by removing biological contaminants left behind after normal cleanings are done. This cleaner will supplement the current maintenance procedures by cleaning the most crucial parts of the instrument: the measurement apparatus and all parts of the analyzer that come in contact with blood samples.

REAGENT COMPOSITION

Reagent: Enzymatic Cleaner reagent kit

SAMPLE COLLECTION AND PRESERVATION

Collect whole blood into an appropriate blood collection tube with anticoagulant (EDTA).

REAGENT PREPARATION

Ready to use reagent.
Start the cleaning procedure before aspirating the reagent.

REAGENT STORAGE AND STABILITY

When stored between 15-30°C, the reagent is stable till the expiration date stated on the bottle and kit label.

REFERENCE VALUES

The Enzymatic Cleaner Reagent Kit is a cleaning solution used to clean critical parts of automated hematology analyzer.

PROCEDURE

1. Open the reagent bottle.
2. Start the cleaning procedure.
3. Aspirate the reagent through the bottle.

QUALITY CONTROL

It is recommended to run random samples along with pathological blood controls which are commercially available to verify the performance of the measured procedure. The values of controls should match with the control sheet data.

If the results come OK, then there is no clogs present in the tubing of the instrument.

BIBLIOGRPHY

1- Segal et al. "Hemolytic properties of synthetic glycosides" J. Pharma. Sci. (1978) 67(11): 1589-1592. *
2- Tatsumi, N., "Alterations of Saponin Hemolysis during Storage of ACD Blood", Vax Sanguinis, vol. 41, No. 1 (Jul. 1981); pp. 18-24.

Mfg. By: BIOGENIX INC. PVT. LTD.
Factory: B - 19/A, S.I.L Ancillary Estate, Amausi Industrial Area, Nadarganj, Kanpur Road, Lucknow - 226008 (U.P.), India
Email: biogenix2007@yahoo.com, info@biogenixinc.com
Website: www.biogenixinc.com
Customer care no: +919140971443

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