



# COULTER STKS HMX, LH500, LH750 reagents

## REF

- 8-516 DILUENT BC (20 L)
- 8-517 LYSING REAGENT BC (5 L)
- 8-518 LYSING REAGENT BC CN FREE (5 L)
- 8-519 SCATTER REAGENT RBC BC (1 L)
- 8-520 SCATTER REAGENT WBC BC (500 ml)
- 8-521 SCATTER REAGENT WBC BC (6 x 500 ml)
- 8-831 ENZYMATIC CLEANER (5 L)
- 8-513 ENZYMATIC CLEANER FORTE (100 ml)

## IVD

### SUMMARY

COULTER STKS HMX, LH500, LH750 count and size cells by detecting and measuring changes in electrical resistance when a particle (such as a cell) in a conductive liquid passes through a small aperture. Each cell suspended in a conductive liquid (diluent) acts as an insulator. As each cell goes through the aperture, it momentarily increases the resistance of the electrical path between the submerged electrodes on either side of the aperture. This causes a measurable electronic pulse. The number of pulses correlates to the number of particles. The height of the electrical pulse is proportional to the cell volume. After the WBC dilution is lysed, the system shines a beam of white light through the WBC aperture bath and then through an optical filter. The system converts absorbance to Hgb values in g/dL.

### COLLECTION AND STORAGE

COULTER STKS HMX, LH500, LH750 are a quantitative, automated hematology analyzers and leukocyte differential cell counters performing analysis on whole blood collected on EDTA tubes. The ratio between EDTA and whole blood must be between 1 to 2 mg per ml of blood. The samples should be used at room temperature no longer than 24 hours after collection. If the analysis can't be done in the time, the samples should be stored at 2-8°C and used no longer than 48 hours after collection.

### UTILISATION

Before running the analysis, the sample should be gently mixed. Do not mix the different lots of reagents.


### CONSERVATION AND SHELF LIFE

The reagents must be stored between 18°C and 30°C and used before the expiry date indicated on the label.

### REFERENCE

Refer to the Operator manual for the analysers.

### NAME AND ADDRESS OF THE MANUFACTURER

 PZ CORMAY S.A.  
Wiosenna 22  
05-092 Łomianki, Poland  
tel.: +48 (0) 22 751 79 10  
fax: +48 (0) 22 751 79 14  
<http://www.cormay.pl>

### UTILISATION (For In Vitro Diagnostic use)

**DILUENT BC** is conductive liquid designed for diluting the whole blood prior to analysis of blood cells, not affecting the cells.

**ENZYMATIC CLEANER / ENZYMATIC CLEANER FORTE** is designed to remove protein contaminants from the measurement system analyser after each blood sample analysis. The presence of an enzyme reduces the formation of proteins deposit.

**LYSING REAGENT BC / LYSING REAGENT BC CN FREE** is used as a lytic agent to prepare a diluted whole-blood sample for the quantitative determination of hemoglobin and the enumeration of leukocytes.

**SCATTER REAGENT RBC BC** lyses the erythrocytes and reduces the cellular debris to an insignificant level without altering the leukocytes.

**SCATTER REAGENT WBC BC** stop and neutralize the lytic activity and restore the ionic balance to the blood, thus preserving the leukocytes in their near-native state for differentiation into five subpopulations.

These reagents are the functional set to perform blood sample analysis on haematology analyser.

### COMPONENTS

DILUENT BC	LYSING REAGENT BC
sodium chloride 2.5 g/l inorganic phosphate buffer 5.6 g/l sodium sulphate 10 g/l EDTA < 1 g/l preservative < 0.5 g/l	dodecyltrimethyl- -ammoniumbromide 30 g/l  other quaternary ammonium salt < 1.5 g/l potassium cyanide < 0.5 g/l
LYSING REAGENT BC CN FREE	SCATTER REAGENT RBC BC
dodecyltrimethyl- -ammoniumbromide 30 g/l  other quaternary ammonium salt < 1.5 g/l	inorganic acid 2 - 3.5 g/l poly-oxy-ethylene-alkylalcohol < 0.5 g/l alkoxy-alcohol 4 - 7 g/l
SCATTER REAGENT WBC BC	ENZYMATIC CLEANER
sodium chloride < 13 g/l sodium carbonate < 31 g/l sodium sulphate < 10 g/l	sodium chloride < 7 g/l potassium phosphate < 3 g/l sodium phosphate < 13 g/l sodium EDTA < 0.5 g/l sodium fluoride < 1 g/l preservatives 3 g/l non-ionic surfactant < 3 g/l dye < 0.02 g/l proteolytic enzymes < 6 g/l

### ENZYMATIC CLEANER FORTE

sodium phosphate < 5 g/l  
sodium sulphate < 5 g/l  
preservative 1 g/l  
dyes < 0.02 g/l  
proteolytic enzymes 5 – 12 g/l

### WASTE TREATMENT

Chemical residues, in general, are included into special waste. Disposing of the latter is regulated by appropriate laws and ordinances. We recommend contacting the appropriate authorities, or waste disposal enterprises that will advise you on how to dispose special waste of.

### PRECAUTIONS

For *In vitro* diagnostic use.  
For professional use only.  
Wear protective equipment.  
Avoid release to sewage system or to environment.  
For further information please refer to Material Safety Data Sheet.