
CELL-DYN Ruby Reagents

CELL-DYN Ruby reagents are formulated for use on the CELL-DYN Ruby in order to provide optimal system performance. Use of reagents other than those specified in this manual is not recommended as system performance can be affected. Each CELL-DYN Ruby is tested at the factory using the specified reagents and all performance claims are generated using these reagents.

The reagents used with the CELL-DYN Ruby are:

- CELL-DYN Diluent/Sheath Reagent
- CELL-DYN CN-Free HGB/NOC Lyse Reagent
- CELL-DYN WBC Lyse Reagent
- CELL-DYN Reticulocyte Reagent

Reagents must be stored at room temperature to ensure optimal performance. All reagents should be protected from direct sunlight, extreme heat, and freezing during shipment and storage. Temperatures below 32° F (0°C) may cause reagent layering that changes the tonicity and conductivity of the reagents.



CAUTION: If any reagent has been frozen, it must not be used.

The reagent inlet tubes have a cap attached that minimizes evaporation and contamination during use. However, reagent quality may deteriorate with time. Therefore, use all reagents within the dating period indicated on the label. For list numbers of reagents, refer to [Appendix A: Parts and Accessories](#), Table A.6.

CELL-DYN Diluent/Sheath

CELL-DYN Diluent/Sheath has the following major functions:

- Maintain the stable diluted cell volume of each red cell and platelet during the count and sizing portion of the measurement cycle
- Serve as a sheath fluid for the hydrodynamic focusing process
- Serve as a rinsing agent for the fluidics system

CELL-DYN CN-Free HGB/NOC Lyse

CELL-DYN CN-Free HGB/NOC Lyse is cyanide-free and has the following major functions:

- Rapidly lyse the red blood cells and minimize the resultant cellular debris
- Strip the white cell cytoplasm leaving the nuclear membrane intact so the white cell nuclei can be enumerated

- Convert hemoglobin to a stable chromagen complex that is measurable at 555 nm.

CELL-DYN WBC Lyse

CELL-DYN WBC Lyse has the following major functions:

- Act as the diluent for the WBC
- Osmotically lyse the red cells
- Maintain the right scattering properties of the WBC for the duration of the measurement period
- Provide sufficient wetting action to prevent accumulation of air bubbles in the WBC flow system
- Serve as a rinsing agent for the WBC Mixing Chamber
- Act as a diluent for Reticulocytes

CELL-DYN Reticulocyte Reagent

CELL-DYN Reticulocyte Reagent is formulated specifically to provide optimal system performance for the CELL-DYN Ruby Reticulocyte procedure. Use of reagents other than those specified in this manual is not recommended because instrument performance can be affected. Each CELL-DYN Ruby System is checked at the factory using the specified reagents and all performance claims were generated using these reagents.

Reagent must be stored in the dark at room temperature. All reagents should be protected from direct sunlight, extreme heat, and freezing during storage.



CAUTION: If any reagent has been frozen, it must not be used.

Reagent tubes have been capped to minimize evaporation. However, reagent quality may deteriorate with time. Therefore, use all reagents within the dating period indicated on the label.

See [Section 12: Reticulocyte Package](#) for Reticulocyte procedure details.