BD™ Lyotubes
Convenience and Confidence for Hematological Testing Labs

Contract Multicolor Cocktail Manufacturing
by the BD Custom Technology Team
**Convenience and Confidence for Multicolor Flow**

BD™ Lyotubes make multicolor flow more convenient for your lab. The BD Custom Technology Team (CTT) manufactures BD Lyotubes as dry, ready to use multicolor cocktails. These reagents are produced in a state of the art facility in the US.

For years, CTT has given clinical labs flexibility by providing customized reagent cocktails. Regardless of which cocktails they choose, customers can be confident of standardized performance for reliable results.

BD Lyotubes streamline your workflow by reducing reagent handling and management, while expanding your options for efficient multicolor flow cytometry for hematological testing.

**Reliability**
- Over 15 years of experience in custom cocktail manufacturing for clinical flow laboratories
- Consistent batch-to-batch performance
- A range of preservation and stabilization technologies, including lyophilization
- Evaluation processes that meet customer needs, including evaluation lots

**Flexibility**
- Cocktails with up to 12 colors designed to customer specifications
- A variety of reagents and dyes for cocktailing, including BD Horizon Brilliant™ dye reagents
- Options to add accessory reagents, including counting beads
- Custom packaging, labeling, and order management options

BD Lyotubes streamline hematological testing by flow cytometry. They are compatible with a variety of workflows and BD sample prep instruments.
BD Lyotubes are functionally equivalent to liquid reagents and are stable for long periods at room temperature, providing consistent results while simplifying reagent inventorying and sample preparation workflows. BD Lyotubes have consistent performance from batch to batch, which helps ensure consistency of results.

**Efficiency**
- Single-use, ready-to-use tubes (BD Lyotubes) or microplate options (BD Lyoplate™ products)
- Compatibility with a variety of sample types (for example, whole blood, peripheral blood mononuclear cells, and cell lines) and different staining protocols (stain lyse, bulk lyse, and intracellular staining)
- Reagent stability at room temperature for at least 18 months without cold-chain storage
- Compatibility with the BD FACSTM Sample Prep Assistant III and BD FACSTM Lyse Wash Assistant

**Figure 1.** BD Lyotubes retain functionality equivalent to liquid reagents.

**Figure 2.** Data from an 8-color BD Lyotube cocktail at the time of manufacturing and from the BD Lyotube stored at room temperature for 25 months. Results are comparable, demonstrating the stability of the reagents.

**Figure 3.** Batch to batch consistency of an 8-color BD Lyotube. The performance is comparable among three different batches. Data on four markers is shown for each batch.
The BD Custom Technology Team offers contract manufacturing of customer-designed, ready-to-use cocktails. Analytical and clinical performance of the cocktails is not established by BD.