

BIOSCOT® Blood Typing Finished Reagents

Merck blood typing reagents are made from human or murine monoclonal antibodies and are formulated in low protein diluents. These monoclonal reagents offer many advantages over polyclonal-based products.

These advantages include:

- Highly specific—no risk of contaminating antibodies
- Lot-to-lot consistency
- Low biohazard risk
- IgM antibodies allow direct agglutination, react without the need for an indirect antiglobulin test and can be used to type cells with a positive direct antiglobulin test.

Merck offers a large portfolio of finished reagents compliant with the requirements of the European Directive 98/79/EC. These reagents are offered in a wide range of commercial options, including supply of finished reagent bulk, BIOSCOT®-labeled vials carrying the CE mark and unlabeled vials. Merck has many years of experience in aiding customers in the registration of products in other countries, so whether your product is Merck labeled or in your own trade dress, Merck can assist you with product and batch registration and/or CE marking when applicable.

Note: BIOSCOT®-labeled reagents are not registered for sale in all geographies. Bulk reagent and unlabeled vial formats are not intended for use as finished In Vitro Diagnostic devices. These products are for further manufacturing or non-diagnostic use only.



BIOSCOT® ABO Reagents

Anti-A (clone BIRMA-1) – TL

This reagent reacts avidly with A₁, A₂, A₁B and A₂B red cells. It will directly agglutinate most examples of A_x. It gives classic mixed field reactions with A₃ and A₃B cells.

Anti-B (clone LB-2) – TN

This reagent reacts avidly with B and AB red cells. The reagent directly agglutinates examples of B_x, but does not agglutinate A₁ red cells with the “acquired B antigen.”

Anti-A,B (clones ES-15/ES-4) – TM

This reagent allows for independent confirmation of ABO grouping, as it is made from antibodies other than those used to make BIOSCOT® Anti-A and Anti-B reagents. The reagent is of particular value in typing blood samples from neonates and geriatrics, where the antigens may be weakly expressed and reverse (serum) ABO grouping is not possible. The antibody from ES-15 is particularly effective in detecting the weakest forms of A.

BIOSCOT® Anti-D Reagents

Anti-D IgM (clone RUM-1) – GG

This reagent is particularly suitable for grouping patients. It is very avid and will directly agglutinate normal, D weak and most D partial types. It does not agglutinate D category VI red cells.

Anti-D IgM/IgG Blend (clones TH-28 + MS-26) – BM

This reagent is particularly suitable for grouping donors or neonates where the detection of D category VI is desirable. This reagent directly agglutinates red cells with normal D expression and most examples of weak D and partial D, but not D^{vi}. When used by the indirect antiglobulin method or by many automated methods, the IgG component will agglutinate D^{vi} red cells.

Anti-D IgM (clone MS-201) – TP

The antibody from MS-201 has an identical specificity to RUM-1.

Recommended Methods

Product	Ig Type	Clone	Tube	Slide	Microplate	Gel	Column	Volume	Catalogue No.
Anti-A	Murine IgM	BIRMA-1	•	•	•			1 L Bulk	TL-1L-BK
								10 L Bulk	TL-10L-BK
								50 L Bulk	TL-50L-BK
								10 x 10 mL Labeled	TL-10X10ML-B
								10 x 10 mL Unlabeled	TL-10X10ML-U
Anti-B	Murine IgM	LB-2	•	•	•			1 L Bulk	TN-1L-BK
								10 L Bulk	TN-10L-BK
								50 L Bulk	TN-50L-BK
								10 x 10 mL Labeled	TN-10X10ML-B
								10 x 10 mL Unlabeled	TN-10X10ML-U
Anti-A,B	Murine IgM	ES-15/ES-4	•	•	•			1 L Bulk	TM-1L-BK
								10 L Bulk	TM-10L-BK
								10 x 10 mL Labeled	TM-10X10ML-B
								10 x 10 mL Unlabeled	TM-10X10ML-U
Anti-D IgM	Human IgM	RUM-1	•	•	•	•	•	1 L Bulk	GG-1L-BK
								10 L Bulk	GG-10L-BK
								50 L Bulk	GG-50L-BK
								10 x 10 mL Labeled	GG-10X10ML-B
								10 x 10 mL Unlabeled	GG-10X10ML-U
Anti-D IgM/IgG Blend	Human IgM + Human IgG	TH-28/MS-26	•	•	•	•	•	1 L Bulk	BM-1L-BK
								10 L Bulk	BM-10L-BK
								50 L Bulk	BM-50L-BK
								10 x 10 mL Labeled	BM-10X10ML-B
								10 x 10 mL Unlabeled	BM-10X10ML-U
Anti-D	Human IgM	MS-201	•	•	•	•	•	1 L Bulk	TP-1L-BK
								10 L Bulk	TP-10L-BK
								10 x 10 mL Labeled	TP-10X10ML-B
								10 x 10 mL Unlabeled	TP-10X10ML-U