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Certificate of Analysis

This is to certify that the product listed hereunder has been manufactured and tested by Immucor, Inc., of Norcross, Georgia. The product is licensed for manufacture by the Food and Drug Administration of the United States Department of Health and Human Services under License No. 886. The product listed has been tested in accordance with current FDA requirements for the product in question, and has been found to meet all specifications.

Product: Blood Grouping Reagent (Murine Monoclonal) by Slide, Tube and Microplate Tests
Anti-A, Series 1 **Anti-B, Series 3** **Anti-A,B, Series 1**
Catalog No. 0006408 / 10 x 10 mL

Lot No. 301520 Note: Any numbers following a dash after the lot number denote only the vialing sequence. These are not separate lot numbers.

Expiration date: 2019-08-25 **Date of manufacture:** 2017-08-25

Chemical Composition: Monoclonal antibodies secreted by murine hydridomas (Anti-A Birma-1; Anti-B LB2; Anti-A,B blend of Birma-1, ES4 and ES15) grown in fluid culture, formulated in a buffered saline solution containing bovine albumin (without stabilizers), ethylenediamine tetraacetate (EDTA), and ingredients to facilitate the resuspension of red cell buttons following centrifugation. Sodium azide is present as a preservative at a concentration of 0.1%. In addition, Anti-A contains FD and C blue #1 and Anti-B contains Naphthol Yellow as coloring agents.

Viral Marker Testing: Not applicable. Product contains no human source material.

Potency:	Requirement	Phenotype	Results
	Must equal or exceed the potency of the corresponding FDA reference preparation.	A ₁	2048 / pass
		A ₂	512 / pass
		A ₁ B	Not tested
		A ₂ B	Not tested
		B	2048 / pass

Reactivity in Microplates:	Requirement	Phenotype	Results
	Must show acceptable reactivity when tested by the recommended microplate procedure (undiluted and diluted 1+1)	A ₁	Pass
		A ₂	Pass
		A ₁ B	Not Tested
		A ₂ B	Not Tested
		B	Pass
		A _x	Not Tested

Avidity:	Requirement	Phenotype	Results
	When tested by the recommended slide test procedure, (undiluted and diluted 1+1 with human serum) agglutination must begin within 1 minute.	A ₁	Pass
		A ₂	Pass
		A ₁ B	Not Tested
		A ₂ B	Not Tested
		B	Pass

Specificity: Requirement: Absence of rouleaux, hemolysis; no reactivity with red blood cells possessing antigens having incidence of 1% or greater in the U.S. population. Confirmed

Approved for Release: All specifications met; labeling checked and confirmed. Released

QC Reviewed By/Date: Amber R 15 SEP 2017 Approved By/Date: D. J. Duffield 29 SEP 2017