

LYOPHILIZED PLATELETS

PRODUCT DESCRIPTION Lyophilized Platelets are a standardized and fixed platelet suspension derived from human blood. The platelets are lyophilized to ensure stability during long term storage. Premeasured Tris Buffered Saline Diluent is supplied with the platelets. Upon reconstitution, the platelet suspension will have a count of approximately 200,000/ul (using hemacytometer	QUALITY CONTROL The use of normal control plasma (containing von Willebrand factor) and an abnormal control plasma (deficient in von Willebrand factor) will assure daily quality control of the platelet suspension (see PRODUCT AVAILABILITY).
methodology).	EXPECTED VALUES
INTENDED USE Lyophilized Platelets are a standardized and fixed suspension of human platelets routinely used as a component of a Ristocetin Cofactor Assay Activity Test.	A result of less than 40% von Willebrand factor is considered abnormal and suggestive of von Willebrand Syndrome. ⁷ However, values over 40% do not rule out the possibility of a variant of von Willebrand Syndrome. (See LIMITATIONS.) Since reference ranges for von Willebrand factor reported in the literature and varied, a reference range should be established by each laboratory.
PRINCIPLE	established by each laboratory.
Ristocetin cofactor is the in vitro activity of the von Willebrand factor (VIII:VWF) which is responsible for the agglutination of platelets in the presence of Ristocetin. ¹⁻³ Decreased Ristocetin Cofactor Assay is associated with von Willebrand syndrome, thus making quantitation of Ristocetin cofactor activity most valuable in the diagnosis and evaluation of this coagulopathy. ²⁻⁴ Levels of Ristocetin cofactor activity are determined by the ability of a test plasma and Ristocetin to induce agglutination of a standardized platelet suspension. ⁵⁻⁶	LIMITATIONS The quantitation of von Willebrand factor is considered by some to be the single most important assay for the diagnosis of von Willebrand Syndrome. However, diagnosis of the variant forms of this coagulopathy necessitates a series of clinical and laboratory evaluations including patient and family history, bleeding time, factor VIII related antigen, and factor VIII coagulant activity. ^{3,4}
PRECAUTIONS	
Lyophilized Platelets are for PROFESSIONAL LABORATORY USE ONLY AND <i>IN-VITRO</i> DIAG- NOSTIC USE ONLY AND NOT FOR INJECTION OR INGESTION. The platelets have been tested at the source and found to be negative for HIV-1Ag, anti-HIV-1/2, Hepatitis B surface antigen, Hep- atitis C antibody, Human T-Lymph tropic type I and II (anti-HTLV I/II) and negative by a serological test for Syphilis. However, all plasma and platelets of human origin should be handled as being potentially hazardous.	PERFORMANCE CHARACTERISTICS The Lyophilized Platelets were tested with the plasmas of known von Willebrand Syndrome patients, as well as normal plasmas in the presence of Ristocetin. Studies have shown that the accuracy and sensitivity of the platelets are such that varying levels of von Willebrand factor can be detected.
NOTE TO USER: Any serious incident that occurs in relation to this device shall be reported to the manufacturer and the competent authority of the Member State in which the user and/ or the patient is established.	REFERENCES 1. Brinkhous KM, Graham JE, Cooper HA, Allain JP, Wagner RH: Assay of von Willebrand Factor in von Willebrand Disease and Hemophilia. Use of a Macroscopic Platelet Aggrecation Test. Thromb Res 6:267. 1975.
	2. Olsen JD, Brockway WJ, Fass DN, Magnuson MA, Bowie EJW: Evaluation of Ristocetin-von
MATERIALS PROVIDED	Willebrand Factor Assay and Ristocetin-Induced Platelet Aggregation. AM J Clin Path 63:210, 1975.
Lyophilized Platelets. Store at 2° to 8° C prior to reconstitution.	 Miller CH, Graham JB, Goldin LR, Elston RC: Genetics of Classic von Willebrand's Disease, I. Phenotypic Variation within Families. Blood 54:117, 1979.
Tris Buffered Saline. pH 7.5. Store at 2° to 8° prior to reconstitution	4. Nelson IM, Holmberg L: von Willebrand's Disease Today. Clinics in Hematology Vol.8 No.1, 1979.
	5. Brinkhous KM, Read MS: Preservation of Platelet Receptors for Platelet Aggregating Factor by Air
MATERIALS REQUIRED BUT NOT PROVIDED	Drying, Freezing, or Lyophilization: New Stable Platelet Preparations for von Willebrand Factor
1. Platelet Aggregometer	6. Ramsey R. Evatt BK: Rapid Assay for yon Willebrand Factor Activity Using Formalin-fixed Platelets
2. Aggregometer cuvettes	and Microtitration Technic. AM J Clin Path 72:996, 1979.
3. Disposable Stir Bars	7. Zimmerman TS, Abildgaard CR, Meyer D: The Factor VIII Abnormality in Severe von Willebrand's
4. Ristocetin A Sulfate	Disease. N Eng J Med 301:1307, 1979. 8 Allain JP Cooper HA Wagner RH et al: Platelets Fixed with Paraforaldebyde: A New Reagent for
5. Normal Reference Plasma	Assay of von Willebrand Factor and Platelet Aggregating Factor. J Lab Clin Med 85:318. 1975.
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	For a complete list of available products please go to our web site www.biodatacorp.com or
I vonbilized Platelets will perform as described when used on most optical platelet aggregom-	contact customer service below.
eters. ¹ Follow the manufacturer's instructions for operating the Aggregometer in use.	
	THE BIO/DATA CORPORATION PRODUCT LINE INCLUDES GENERAL PURPOSE, PROFESS-
RESUSPENSION OF LYOPHILIZED PLATELETS	SIONAL LABORATORY USE REAGENTS INTENDED TO INDUCE AND REPORT PLATELET
NOTE: Studies at Bio/Data Corporation have demonstrated that degassing of the reagents prior	AS DESCRIBED IN ITS LABELING INCLUDING THE INSTRUCTIONS FOR USE, BIO/DATA
to use will minimize the variables and improve reproductively. This can be achieved by mechani-	CORPORATION MAKES NO CLAIM OR WARRANTY, EXPRESSED OR IMPLIED, OF THE
cally rocking the platelet suspension for 30 minutes while reconstituting or warming.	CAPABILITY, FITNESS, OR MERCHANTABILITY FOR ANY OTHER PURPOSE. IN NO EVENT
To a vial of 10mL Lyaphilized Platelate, add 10mL of the Trip Puffored Soling or to a vial of 4mL	SHALL BIO/DATA CORPORATION BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES ARISING
I vonbilized Platelets, add 4mL of the Tris Buffered Saline that is provided and allow to rock at	OUT OF AFORESAID EXFRESSED WARRANTT.
room temperature for at least 30 minutes. Reconstituted platelets are stable for 30 days when	
stored at 2° to 8° C in the original closed container. After refrigeration and prior to use, it is	
also necessary to mechanically mix the platelets for at least 30 minutes at room temperature	$((\mathcal{J}))$
to allow the suspension to equilibrate and degas.	
NOTE: Descents must be at ream temperature (15° to 20° C) prior to reconstitution. Stared	155 Cibrolter Bood Hershom, BA 1004411 S.A.
reagent must be brought to room temperature prior to use	(800) 257-3282 LLS A (215) 441-4000 Worldwide
reagent maet be broaght to room temperature phot to dae.	(215) 443-8820 Fax Worldwide
REAGENT STORAGE	E-mail: customer.service@biodatacorp.com
The reconstituted Lyophilized Platelets are stable for 30 days when stored at 2° to 8° C in its	Internet: www.biodatacorp.com
original tightly sealed container.	An ISO 13485 Registered Company
TEST PROCEDURE	
Several modifications of the von Willebrand factor assay employing fixed platelets have been	
described in the literature ^{1, 5, 6, 8} The platelet suspension should be used as indicated by the	
THE vW FACTOR ASSAY® TECHNICAL BULLETIN (NO. 103023).	



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