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	Effective Date:	07-31-2022
	Document Type:	Standard Operating Procedure
	Page Number:	1 of 3
	Department/Section:	Blood Bank Section
	Document Title:	<b>WEAK D/Du TESTING</b>

### **PURPOSE:**

To outline the steps involved in processing Weak D/Du Testing. The test is performed to determine if the Rh Negative individual has been sensitized to Rh Positive antigens and to confirm if an individual is really Rh positive or Rh Negative.

### **SCOPE:**

Applies to all Blood Bank Section Staff of Laboratory Department of Dr. Pablo O. Torre Memorial Hospital (DPOTMH)

### **PERSON RESPONSIBLE:**


Medical Technologist (Medical Laboratory Scientist), Nurses, Clerks

### **GENERAL GUIDELINES:**

1. Attending Physician shall order Du typing test request and shall be encoded in the system by the Nurse-on-duty.
2. A fresh blood sample shall be taken and collected in a lavender top / EDTA blood collecting tube.
3. Proper patient identification shall be strictly observed by identifying the patient by their complete name and birthdate. Tubes shall be properly labeled with patient's complete name for it is crucial and needs emphasis in clinical settings.
4. Impervious gloves and proper protective equipment (PPE) / clothing shall be worn in adherence to Infection Prevention and Control Unit Protocol.

### **PROCEDURE:**

1. Prepare a 2-5% of patient's red cell suspension by washing the red cells three (3) times with normal saline solution.
2. Place 2 drops of washed 2-5% patient's red cell suspension in a test tube.
3. Add two (2) drops of Anti-D.
4. Mix well and incubate at 37°C for 30 minutes.

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	Page Number:	2 of 3
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5. Spin for 1 minute.
6. Wash with normal saline solution for three (3) times.
7. Decant completely after the third / last wash and add two (2) drops of Anti-Human Globulin (AHG).
8. Spin and read the result microscopically.

#### ***For the Control***

1. Place 2 drops of the patient's red cell suspension in a tube labelled as your control.
2. Spin for 1 minute.
3. Wash with normal saline solution for three (3) times.
4. Decant completely the last washing and add two (2) drops of Anti-Human Globulin (AHG).
5. Spin and read the result.

#### ***Interpretation:***

No agglutination means **Rh Negative**.


If the test is positive and the control is negative, the individual has the Rho variant (Du).

\*It is important to run a patient control (Rh Control) with the Weak D (Du) Test. If the patient control (Rh Control) is positive, the typing is not valid and the patient cells may need to be washed and retested or checked for a positive Direct Antiglobulin Test (DAT).


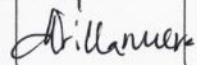


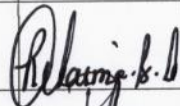

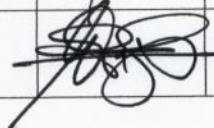
#### ***Note:***

Du positive individual is considered Rh positive as a donor since he does possess a modified Rho (D) antigen which can elicit an immune response in a Rh Negative recipient.


If the patient is Rho Du (+), he can be given either Rh Positive or Rh Negative blood since immunization to Rho D is unlikely.

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**APPROVAL:**

	Name/Title	Signature	Date
Prepared by:	<b>MELISSA THERESE B. LABAYEN, RMT</b> Blood Bank Section Head		07-07-2022
Verified by:	<b>MONICA B. VILLANUEVA, RN, RMT, PhD</b> Laboratory Manager		7-7-2022
	<b>MELANIE ROSE B. ZERRUDO, MD, FPSP</b> Chair, Department of Pathology		7-7-2022
Reviewed by:	<b>DENNIS C. ESCALONA, MN, FPSQua</b> Quality Assurance Supervisor		07-07-2022
Recommending Approval by:	<b>ROSARIO D. ABARING, MAN, PhD</b> Ancillary Division Officer		07-07-2022
	<b>FREDERIC IVAN L. TING, MD</b> OIC - Total Quality Division		7/8/22
Approved by:	<b>GENESIS GOLDI D. GOLINGAN</b> President and CEO		9/7/22





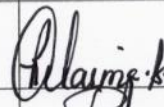

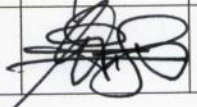


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	Document Type:	Work Instruction
	Page Number:	1 of 2
	Department/Section:	Blood Bank Section
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KEY TASKS	PERSON RESPONSIBLE
1. Prepare a 2-5% of patient's red cell suspension by washing the red cells three (3) times with normal saline solution.	Medical Technologist
2. Places 2 drops of washed 2-5% patient's red cell suspension in a test tube. Adds two (2) drops of Anti-D.	
3. Mixes well and incubate at 37 <sup>0</sup> C for 30 minutes. Spins for 1 minute.	
4. Washes with normal saline solution for three (3) times.	
5. Decants completely after the third / last wash and add two (2) drops of Anti-Human Globulin (AHG).	
6. Spins and read the result microscopically.	
FOR THE CONTROL	
1. Places 2 drops of the patient's red cell suspension in a tube labelled as your control.	Medical Technologist
2. Spins for 1 minute. Washes with normal saline solution for three (3) times.	
3. Decants completely the last washing and add two (2) drops of Anti-Human Globulin (AHG).	
4. Spins and reads the result.	

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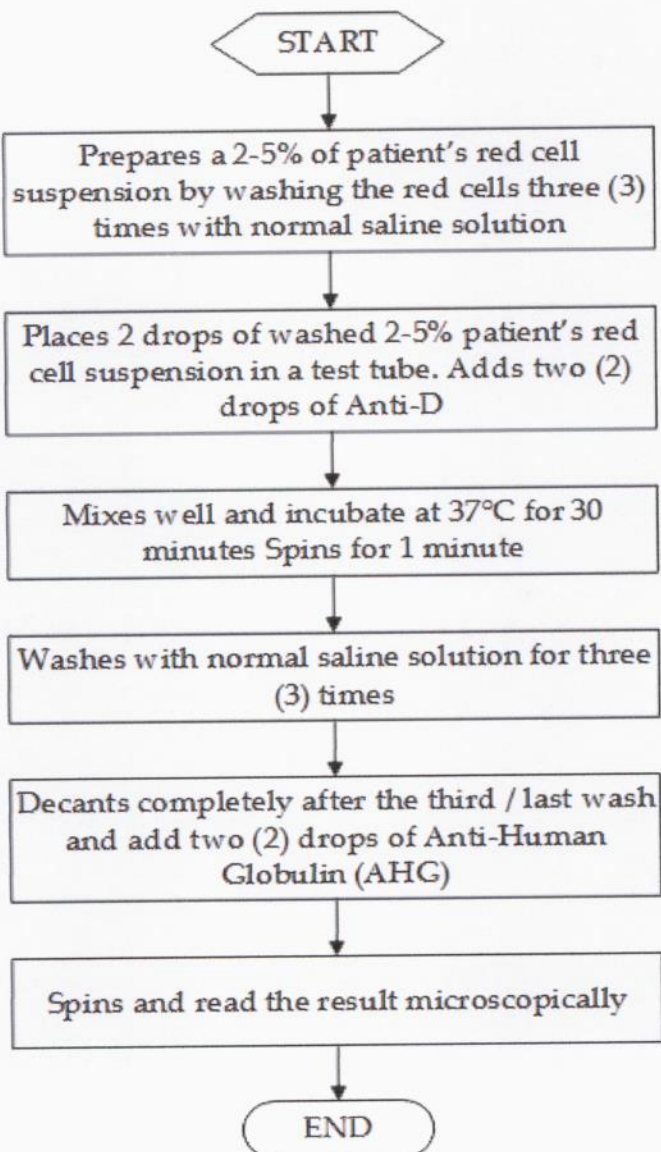


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Document Type:	Flowchart
Page Number:	1 of 3
Department/Section:	Blood Bank Section
Document Title:	<b>WEAK D/Du TESTING</b>

## FLOWCHART







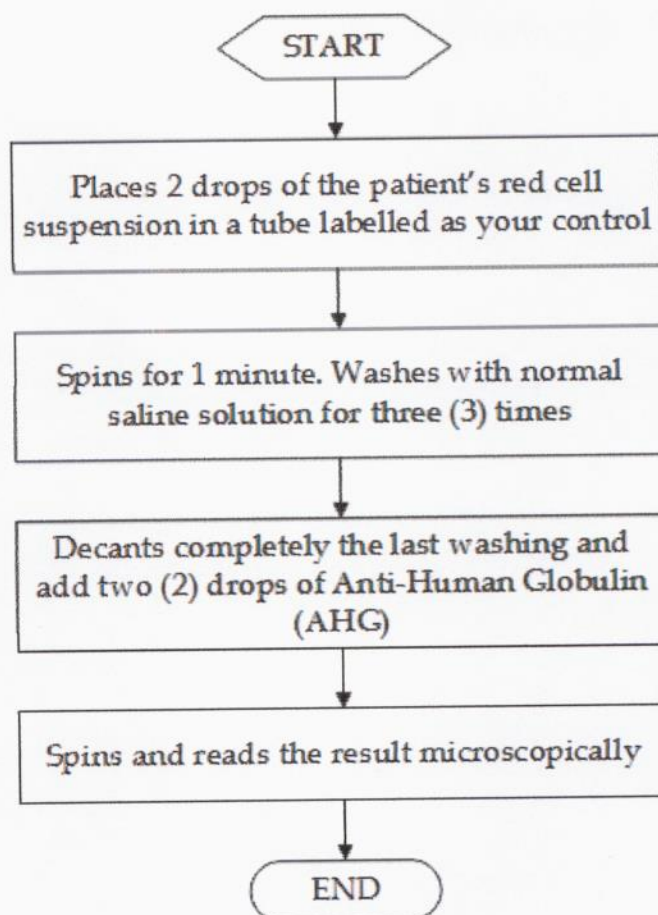
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Department/Section:	Blood Bank Section
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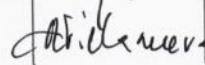


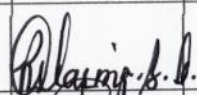

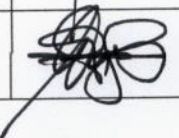
## FLOWCHART

### FOR THE CONTROL



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