

## A Rapid, Repeatable Way to Prepare Samples for Platelet Function Tests



The PDQ<sup>®</sup>, Platelet Function Centrifuge is Optimized for Consistent Sample Quality

### Specimen to Test Sample in 5 Minutes

- PRP in 30 Seconds
- PPP in 120 Seconds
- PFP in 180 Seconds

### Simple Pre-Analytical Process

- Manage the Process from Specimen to Test
- Immediate Specimen Processing
- Precisely Controlled Pre-Programmed Modes

### Performance Tested

- Reproducible Sample Quality
- Improved Precision & Repeatability
- Free from Activation Artifacts

The PDQ is a fixed speed, specialty centrifuge with three pre-programmed settings: Platelet Rich Plasma (PRP), Platelet Poor Plasma (PPP) and Platelet Free Plasma (PFP). These three process cycles offer greater control and sample standardization without any measurable platelet activation. This small footprint centrifuge allows the laboratory to locate the sample preparation process next to the platelet aggregometer for greater convenience and improved turn around time. The compact design provides for quiet and vibration free operation. Its four position rotor accepts evacuated specimen collection and aliquot tubes. The PDQ is an ideal companion accessory for the PAP-8E as well as other light transmission aggregometers.

## Sample Preparation... Standardized



## PDQ®, Platelet Function Centrifuge

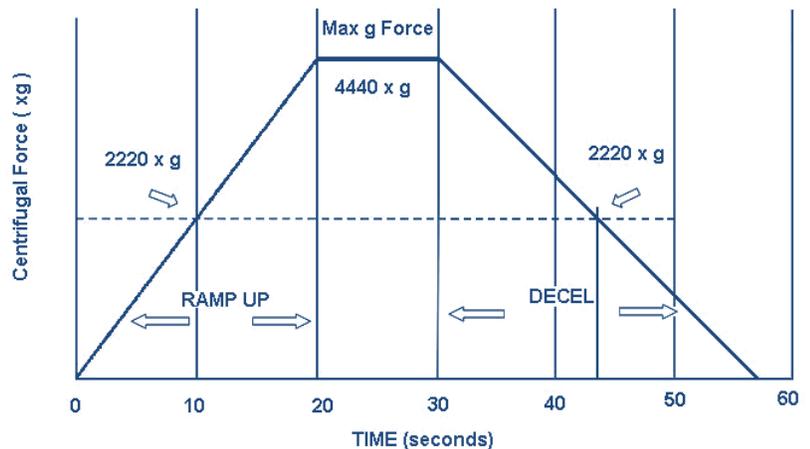
Catalog Number: 106842

The Platelet Function Centrifuge, Model PDQ®, is intended to be used as a specialized clinical centrifuge to prepare samples for platelet function testing. The device has three validated, pre-programmed modes that produce specific sample types for platelet function tests. The PDQ has been performance tested with anti-coagulated whole blood specimens in evacuated collection tubes. These include both Vacutainer® and Vacuette® tubes containing 0.11M sodium citrate, as well as plastic sample tubes. The PDQ is for professional laboratory use only.

There are three phases in the centrifugation process: ramp up, max RCF, and deceleration (decel). Ramp up is the length of time it takes to reach the max RCF. The effective g force during ramp up is one half of the max RCF. Max RCF is the maximum g force the sample is subjected to, and decel is the time it takes for the centrifuge to stop (without braking). The effective decel g force is, like ramp up, half that of the max RCF. The difference between ramp up and decel is the time the sample is subjected to 2200 x g force.

The chart shows that the PDQ ramp up takes 20 seconds (manufacturer's specification). The effective g force is one half of the max (4440 x g/2) or 2220 x g. The sample is spun at a max RCF of 4440 x g for ten seconds (manufacturer's specification). The decel time is 28 seconds, and the effective g force is 2220 x g.

### G Force Determination for PRP



#### PRODUCT SPECIFICATION

The PDQ® is a microprocessor controlled, four place, clinical centrifuge with three preprogrammed modes:

- Platelet Rich Plasma (PRP)
- Platelet Poor Plasma (PPP)
- Platelet Free Plasma\* (PFP)

\*Platelet Free Plasma; suitable for use in the Ristocetin Cofactor Assay; PFP Setting also used for washed platelet (WP) procedures

Tube Sizes: up to 13 x 75 mm (1.5 – 2mL, 2 mL, 3 mL, and 5 mL)

Noise: 60 db at Maximum RPM  
 Acceleration Time: 20 Seconds (95% of Rated Speed)  
 Deceleration: ~30 Seconds  
 Speed: 8500 RPM  
 RCF: 4400 x g

#### START UP ACCESSORIES INCLUDED

- Rotor, Four Position
- Inserts: 5 mL Tube, Set of Four
- Rotor Removal Tool
- PDQ® Bowl Liner, Installed
- Operation and Methods Manuals
- Warranty Card
- Validation Certificate
- Certificate of Conformance and Validation

#### APPLICABLE STANDARDS & GUIDELINES

CLSI: Approved Guideline, H58 A P: Platelet Function Testing by Aggregometry. 2007

CLSI: Approved Guideline, H21 A4: Collection Transport and Processing of Blood Specimens for Testing Plasma Based Coagulation Assays. 2003

CLSI: Approved Guideline, H51 A: Assays of von Willebrand Antigen and Ristocetin Cofactor Activity. 2002

CLSI: Approved Guideline, H58 A: Platelet Function Testing Aggregometry 2008.

#### NOTES

The rotor has a use dependent, finite life. It must be replaced immediately if there are visible cracks.

#### DIMENSIONS & WEIGHT

Diameter: 6.0 inches / 15.2 cm  
 Height: 6.6 inches / 16.7 cm  
 Weight: 5 pounds / 2.3 kg

#### ELECTRICAL SPECIFICATIONS

Input: 100 / 240 VAC; 50 / 60 Hz

#### LIMITED WARRANTY

Two years repair or replacement at Bio/Data Corporation, Horsham, PA USA

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