



Pre-Analytic Sample Processing  
Stout C, et al., 2015

## WHITE PAPER

# DRUCKER MODEL 853VES

## Platelet-Poor Plasma Preparation for Coagulation Testing using the Drucker Company Model 853VES Centrifuge

To prepare blood samples for coagulation testing using a Drucker Model 853VES centrifuge

### PREPARATION:

Samples were placed into 100mm BD Vacutainer Sodium Citrate (3.2%, 0.105M) test tubes and were then separated using the Drucker Model 853VES centrifuge with the Performance-Plus Rotor (figure 2). The centrifuge was set to run for five minutes at the full operating speed of 5,000 RPM. A reduced deceleration rate of '5' was used to preserve separation integrity.

Plasma from these tubes was then analyzed using a Cell-Dyn 3200. The results from this analysis are given on page 2.

Samples were randomly chosen.

### RESULTS:

A total of 39 samples were prepared and analyzed. Of these 39, 5 samples had platelet counts in excess of  $10^3 / \mu\text{L}$ . Two of these samples, #11 and #15, are suspected of being improperly prepared or otherwise contaminated.

The mean for included samples\* tested was  $5.47 \times 10^3 / \mu\text{L}$ .

It was the opinion of the lab manager that this centrifuge is acceptable for platelet-poor preparation. Any deviation from the speed, run time or deceleration settings may affect results.



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### TEST DATES

February 28, 2005, March 08, 2005

### LOCATION:

Centre Medical and Surgical Associates  
Medical Laboratory  
State College, PA  
under the supervision of Dr. Robert Shoemaker, M.D.

### EQUIPMENT

**Model:** 853VES "Plasmafuge-12"  
**Rotor:** Performance Plus, p/n 7086024  
**Tube Holder:** 100mm Purple, p/n 7713040  
**Test Tubes:** BD Vacutainer, 3.2% Sodium Nitrate /  
0.105M, 100mm  
**Analyzer:** Cell-Dyn 3200

### CENTRIFUGE SETTINGS

**Speed:** 6,500 RPM  
**G-Force:** 5,000 xg  
**Run Time:** 3 minutes  
**Braking:** 4

## ADDENDUM A

## TEST DATA: FEBRUARY 28 2005

SPECIMEN #	PLATELETS x 10 <sup>3</sup> / uL
1 328	9
2 329	5
3 330	7
4 331	10
5 332	15
6 333	4
7 334	6
8 335	4
9 375	7
10 376	5
11 377	24*
12 378	0
13 379	2
14 380	7
15 381	25*
16 382	10
17 383	5
18 384	8

## TEST DATA: MARCH 08 2005

SPECIMEN #	PLATELETS x 10 <sup>3</sup> / uL
19 1008	0
20 1009	3
21 1010	5
22 1011	7
23 1012	17
24 1013	6
25 1014	3
26 1015	2
27 1016	0
28 1017	4
29 1018	2
30 1019	7
31 1020	3
32 1021	1
33 1022	12
34 1023	5
35 1024	1
36 1037	6
37 1038	2
38 1039	7
Mean for all samples:	5.47

\* Samples #11 and 15 may have been improperly prepared and were not included in the calculation of the mean.

WP-853VES-1 Rev. 1.0: Platelet-Poor Plasma Preparation for Coagulation Testing using the Drucker Company Model  
853VES Centrifuge with the Performance-Plus Rotor and 100mm Tube Holder