
Sample preparation for overnight storage/sample transportation using the Drucker Company Model 642 VFD with Standard Rotor.

Purpose:

To prepare blood samples for overnight storage/sample transportation using the Drucker Model 642 VFD centrifuge with the Standard Horizontal Rotor.

Preparation:

Samples were collected and placed into BD Vacutainer Lithium Heparin tubes and then separated using the Drucker Model 642 VFD centrifuge with the standard rotor. The centrifuge was set to run for 15 minutes at an operating speed of 3800 RPM's. A braking rate of 0 was used to preserve separation integrity.

Results:

A total of 30 different samples were prepared and run. The Lithium Heparin had an average of K+ of 3.98 pre storage/transport and average K+ of 4.12 post storage and transport. The percent difference between the two was 3.3% (average).

It was the opinion of the lab manager that this centrifuge is ideal for specimens that will be kept or transported overnight. Any deviation from the speed, run time or brake settings may affect results.



Test Dates

June 4th, 2007

Location:

The Drucker Company
200 Shadylane Dr.
Philipsburg, PA 16866
Under the supervision of Beth Bubba, (MT) ASCP



Equipment:

Model: 642 VFD
Rotor: Standard Rotor (p/n: 7786022)
Tube Holder: 13 mm x 100 mm (p/n: 7713040)
Test Tubes: BD Vacutainer Lithium Heparin 3.5 mL 17x100
Analyzer: IL 943 Flame Photometer

Centrifuge Settings:

Speed: 3800 RPM
Run Time: 10 minutes Lithium Heparin
Brake Level: 0
Acceleration Rate: 9
Countdown Delay: ON

June 4th, 2007

Date	Sample #	Potassium (mmol/L) Pre-Transport	Potassium (mmol/L) Post-Transport	Difference	Call Separation Post
6/4/2007	1	3.84	4.22	0.38	Good
6/4/2007	2	4.65	4.94	0.29	Good
6/4/2007	3	3.97	4.2	0.23	Good
6/4/2007	4	4.3	4.57	0.27	Good
6/4/2007	5	3.93	4.2	0.27	Good
6/4/2007	6	4.4	4.68	0.28	Good
6/4/2007	7	3.84	4.04	0.2	Good
6/4/2007	8	4.46	4.62	0.16	Good
6/4/2007	9	3.84	4.04	0.2	Good
6/4/2007	10	4.27	4.4	0.13	Good
6/4/2007	11	3.86	4.11	0.25	Good
6/4/2007	12	3.67	3.86	0.19	Good
6/4/2007	13	4.29	4.57	0.28	Good
6/4/2007	14	4.31	4.56	0.25	Good
6/4/2007	15	4.29	4.49	0.2	Good
6/4/2007	16	4.75	5.09	0.34	Good
6/4/2007	17	4.29	4.62	0.33	Good
6/4/2007	18	4.51	4.92	0.41	Good
6/4/2007	19	4.11	4.4	0.29	Good
6/4/2007	20	4.27	4.66	0.39	Good
6/4/2007	21	4.17	4.45	0.28	Good
6/4/2007	22	4.2	4.51	0.31	Good
6/4/2007	23	4.68	5.04	0.36	Good
6/4/2007	24	4.21	4.55	0.34	Good
6/4/2007	25	3.8	4.01	0.21	Good
6/4/2007	26	3.84	4.04	0.2	Good
6/4/2007	27	3.89	4.14	0.25	Good
6/4/2007	28	3.93	4.16	0.23	Good
6/4/2007	29	3.82	4.03	0.21	Good
6/4/2007	30	3.86	4.07	0.21	Good
Average		4.14	4.4	0.26	