

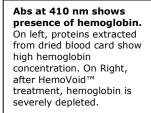
HemoVoid™ Blood Card Reagent

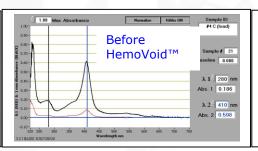
Hemoglobin Depletion And Protein Enrichment From Dried Whole Blood Cards

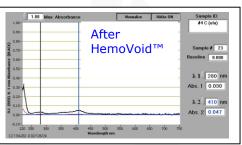
- Hemoglobin voids in flow-through >98%, with <30 minute bind/wash/elute protocol
- Hemoglobin removal from whole blood lysates extracted from dried blood cards
- Blood proteins and enzymes are enriched for potential biomarker and proteomic studies.
- Hemoglobin removal from frozen and fresh whole blood.
- Removes hemoglobin from diverse species incl. human, sheep, bovine, goat, rat, etc.

Hemoglobin is a common contaminant from dried whole blood cards and not normally found in serum samples. The HemoVoid $^{\text{TM}}$ Blood Card protocol was designed to substantially reduce the presence of hemoglobin and its associated interference with many serum protein analytes.

HemoVoid[™], a silica-based mixed mode matrix, removes hemoglobin from dried whole blood card samples. The HemoVoid[™] protocol uses mild buffers; the protocol conditions are so gentle that native enzyme activity is retained in elution fractions.



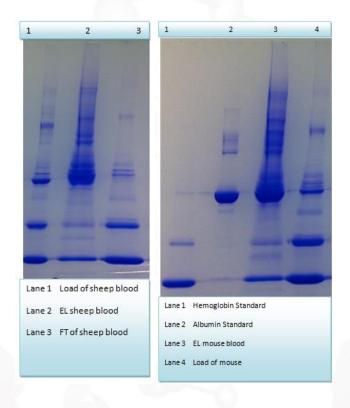






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SDS Page (4-20%)
Sheep Blood(left)
Mouse blood (right)



Product	# of samples processed	Item No.	Price		
HemoVoid™ Blood Card	10 Dried Whole Blood Card 0.5" Spots	HVBC-10	\$375		
HemoVoid™ Blood Card	50 Dried Whole Blood Card 0.5" Spots	HVBC-50	\$1450		
NOTE: Please contact sales@biotechsupportgroup.com for prices in bulk amount.					

Kit Content	10 Prep	50 Prep	Reagent
HemoVoid™	0.5 gram	2.5 grams	Supplied
Protein Extraction Buffer PEB	5 ml	25 ml	Supplied
Binding Buffer HVBB, PH 6.0	15 ml	75 ml	Supplied
Wash Buffer HVWB, PH 7.0	15 ml	75 ml	Supplied
Elution Buffer HVEB, PH 9.8	3 ml	15 ml	Supplied
SpinX Centrifuge tube filters	10	50	Supplied
Suggested Or Equivalent Supplier of Blood Card: Whatman 903™ Protein Saver cards			Not Supplied



HemoVoid™ Protocol For Hemoglobin Depletion From Blood Spot/Blood Card

Based on processing 20-50 µl whole blood applied to and dried on Whatman 903™ Protein Saver cards (approximately equivalent to the imprinted 0.5" circle)

- 1. **Extraction of dried protein from the card.** Punch out the dried blood section from the card into a microfuge tube. Add 400 µl PEB buffer. Shake for 30 minutes at room temperature. Microfuge at 5000 rpm for 4 minutes. Transfer the protein sample to microtube.
- 2. Weigh out 50 mg of **HemoVoid™** matrix into the supplied SpinX filter.
- 3. Add 400 µl of **Binding Buffer HVBB** to the SpinX filter. Vortex or mix well for 5 minutes at room temperature followed by centrifugation at 3000 rpm. Discard the supernatant.
- 4. Repeat step 3.
- 5. Add 300 μ l of **Binding Buffer HVBB** to the SpinX filter. Add 300 μ l of the Sample prepared in step 1 to the same SpinX filter. Vortex for 10 min and then centrifuge for 2 minutes at 5000 rpm.
- 6. Discard the hemoglobin containing filtrate.
- 7. To the pellet, add 500 µl of **Wash Buffer HVWB**. Vortex or mix well for 5 min and centrifuge for 2 minutes at 5000 rpm. Discard the filtrate.
- 8. Repeat Step 7, twice.
- 9. To the pellet, add 200 μ l of **Elution Buffer HVEB**. Vortex or mix well for 10 min and centrifuge for 2 minutes at 5000 rpm. Analyze the hemoglobin depleted elute protein.

Related HemoVoid™ References

Human Red Blood Cells (RBC)

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Lasonder E, Green JL, Camarda G, Talabani H, Holder AA, Langsley G, Alano P. <u>The Plasmodium falciparum schizont phospho-proteome reveals extensive phosphatidylinositol and cAMP-Protein Kinase A signalling</u>. J Proteome Research. 2012;

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Sudha Neelam, David G Kakhniashvili, Stephan Wilkens et al. <u>Functional 20S proteasomes in mature human red blood cells</u> Experimental Biology and Medicine.2011;236:580-591

CONTACT US

We welcome your questions, comments and concerns regarding our products.

Call 732-274-2866, Monday – Friday 9am-6pm EST.

Fax 732-274-2899

Email sales@biotechsupportgroup.com,

Mail 1 Deer Park Drive, Suite M, Monmouth JCT, NJ 08852, USA