



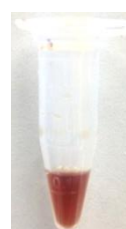
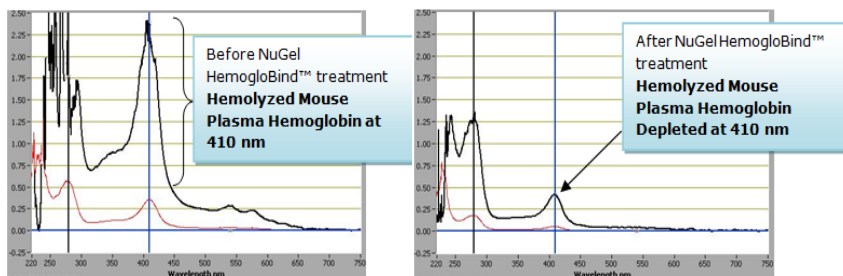
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NuGel-HemogloBind™

Hemoglobin Capture Reagent From Blood and Hemolyzed Serum with NuGel™ Matrix

- Has a high degree of specificity for hemoglobin binding up to 10 mg/ml
- Removes hemoglobin from any species including human, sheep, bovine, goat, etc
- Removes hemoglobin from organs, tissues.
- Hemoglobin removal from red blood cell lysate for proteomics and biomarker drug discovery
- The flow through fractions(hemoglobin depleted) retain their enzymatic and biological activity
- The flow through fractions(hemoglobin depleted) is compatible with LC-MS, activity based protein profiling and proteomic studies.

NuGel-HemogloBind™ is reengineered for increased stability. It is based on NuGel silica (50 microns in size, 1000Å) covalently bound to elastomeric polyelectrolytes. It binds >95% of hemoglobin from blood.



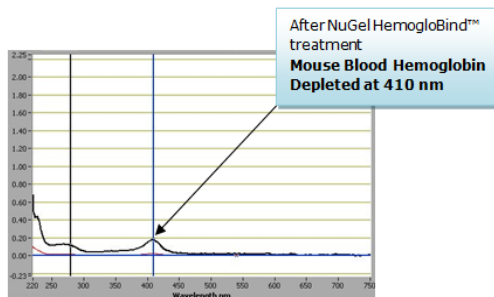
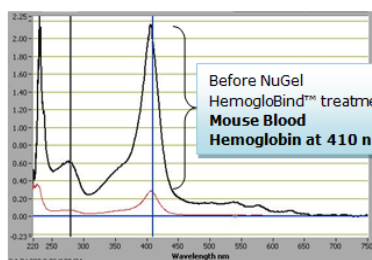
Diluted Hemolyzed Mouse Plasma Before Treatment



NuGel HemogloBind™



Diluted Hemolyzed Mouse Plasma After Treatment



Diluted Mouse Blood Before Treatment



NuGel HemogloBind™



Diluted Mouse Blood After Treatment

Product	Size	Total Sample Processed.	Item Price	Price
NuGel-HemogloBind™	25 preps	500µl of blood or 5 ml of Hemolyzed Serum or Plasma	NP-HO-T25	\$450
NuGel-HemogloBind™	50 preps	1 ml of blood or 10 ml of Hemolyzed Serum or Plasma	NP-HO-T50	\$850
Items Required		25 Prep	50 Prep	Reagent
NuGel-HemogloBind™		1.25 grams	2.5 gram	Supplied
Hemoglobin Binding Buffer (HB)		15 ml	30 ml	Supplied
SpinX Centrifuge tube filters		25	50	Supplied



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PROTOCOL – To Treat Blood Sample Using Microfuge Tube

1. Weigh out 50 mg of **NuGel-HemogloBind™** matrix in a microfuge tube.
2. Add 200 µl of Hemoglobin Binding Buffer to the matrix. Vortex or mix well for 2 minutes at room temperature.
3. In a separate microfuge tube, add 200 µl of Hemoglobin Binding Buffer and 10-20 µl of blood sample. Vortex for 3 minutes.
4. Add sample from step 3 to sample from step 2.
5. Vortex or mix well for 10 minutes at room temperature followed by centrifugation for 4 minutes at 10,000 rpm.
6. Collect the filtrate or supernatant which contains hemoglobin depleted sample, while the matrix contains the hemoglobin.

PROTOCOL – To Treat Hemolyzed Plasma or Serum Sample Using Microfuge Tube

1. Weigh out 50 mg of **NuGel-HemogloBind™** in microfuge tube and add 400 µl Hemoglobin Binding Buffer. Vortex for 2 minute.
2. Add 200 µl Hemolyzed Sample to step 1.
3. Vortex or mix well for 10 minutes at room temperature followed by centrifugation for 4 minutes at 10,000 rpm
4. Collect the filtrate or supernatant which contains hemoglobin depleted sample, while the matrix contains the hemoglobin.

PROTOCOL – To Treat Blood Sample Using Spin-X Tube

1. Weigh out 50 mg of **NuGel-HemogloBind™** matrix in a spin-tube.
2. Add 200 µl of Hemoglobin Binding Buffer. Vortex or mix well for 2 minutes at room temperature, centrifuge for 2 minutes at 10,000 rpm.
3. Discard the supernatant.
4. In a separate microfuge tube, add 400 µl of Hemoglobin Binding Buffer to the 10-20 µl of blood sample. Vortex or shake for 3 minutes.
5. Add sample from step 4 to the pellet sample from step 3.
6. Vortex or mix well for 10 minutes at room temperature, and then centrifuge for 4 minutes at 10,000 rpm.
7. Collect the filtrate or supernatant which contains hemoglobin depleted sample, while the matrix contains the hemoglobin.

PROTOCOL – To Treat Hemolyzed Plasma or Serum Sample Using Spin-X Tube

1. Weigh out 50 mg of **NuGel-HemogloBind™** matrix in a spin-tube and add 200 µl Hemoglobin Binding Buffer. Vortex or mix well for 2 minutes at room temperature, centrifuge for 2 minutes at 10,000 rpm.
2. Discard supernatant.
3. In a separate microfuge tube, add 400 µl Hemoglobin Binding Buffer to 200 µl Hemolyzed sample. Vortex for 3 minutes.
4. Add the sample from step 3 to the pellet from step 2. Vortex or mix well for 10 minutes at room temperature followed by centrifugation for 4 minutes at 10,000 rpm



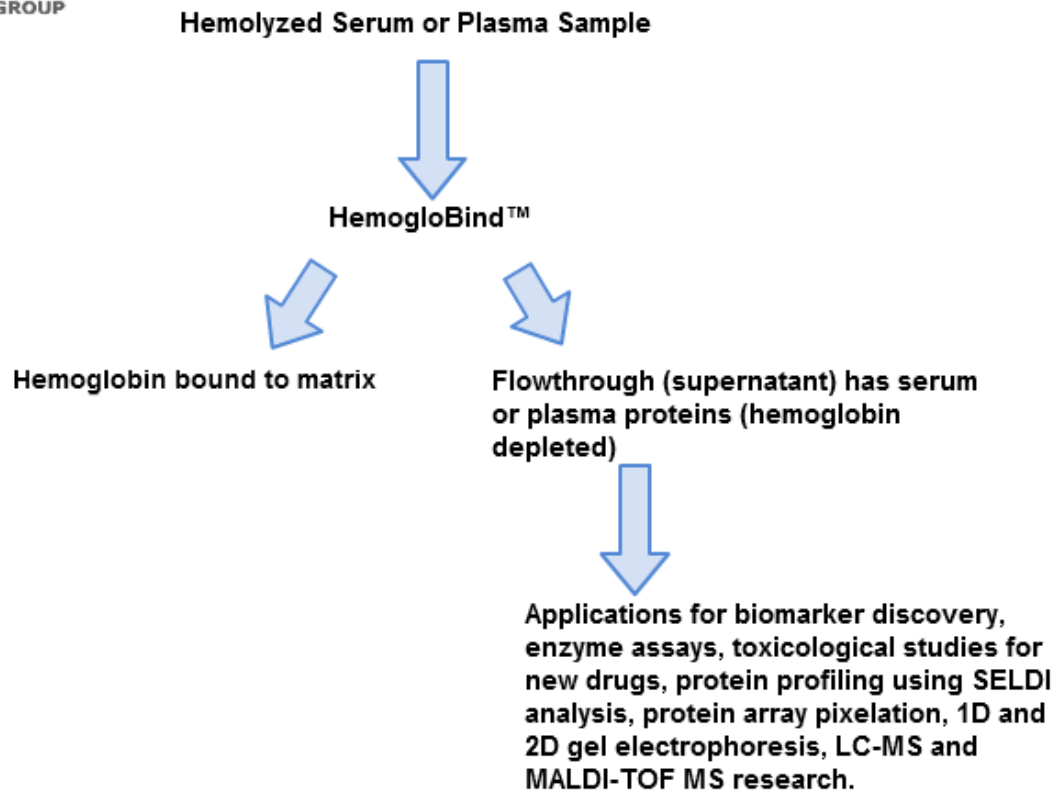
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5. Collect the filtrate or supernatant which contains hemoglobin depleted sample, while the matrix contains the hemoglobin.



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How NuGel-HemogloBind™ Works



Related HemogloBind™ References

Biological Fluids

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Red Cell Lysates

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Stored Blood Products

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Tissue

Padilla, S., Convenient Method for Decreasing the Amount of Hemoglobin in Tissue Samples Without Affecting the Level of Cholinesterase Activity, unpublished personal correspondence, 1994.

CONTACT US

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

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