

Native Human Hemoglobin

Catalog No.	CSI19668A CSI19668B	Quantity:	1 g 5 g
Alternate Names:	Hb		
Description:	<p>Hemoglobin is the iron-containing oxygen-transport metalloprotein in the red blood cells. It carries oxygen away from the lungs and carbon dioxide back to the lungs. A molecule of human hemoglobin (Hb) consists of 2 pairs of peptide (alpha and beta globin) chains and four heme groups, each with one atom of iron. At a normal oxygen tension of 100 mm Hg in the blood vessels of the lungs, 95-98% of the human hemoglobin is combined with oxygen. In the tissues further from the lungs, where the oxygen tension is much lower, the oxygen readily separates from human hemoglobin. The normal range of hemoglobin is approximately 14 to 17 grams per deciliter for men and 12 to 16 grams per deciliter for women. A low hemoglobin count indicates a low red blood cell count (anemia).</p>		
Source:	Human red blood cells		
Formulation:	Lyophilized with buffer salts		
Purity:	≥96% by SDS-PAGE		
Protein Content:	≥ 0.70 mg Hemoglobin/mg (Cyanomethemoglobin). This preparation is predominantly methemoglobin.		
Reconstitution:	Add sterile distilled water directly to vial to ensure full recovery. Solubility in water is 1 mg/mL to yield clear, red-brown solution.		
Storage & Stability:	Store at 2-8 °C. Protect from moisture.		
Statement:	<p>Non-Infectious Disease Statement: Non-reactive for HIV-1/HCV/HBV by NAT; HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.</p>		

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