

Life Diagnostics, Inc.

610-431-7707 • Fax: 610-431-7818

Info@lifediagnostics.com • www.lifediagnostics.com

Cat Haptoglobin

Catalog No.	8160
Analysis	SDS PAGE: ~40 & ~10 kDa bands indicative of β - and α - chains of haptoglobin.
Purity	$\geq 90\%$
Concentration	0.5 - 5 mg/ml ($E^{1\%} @ 280\text{nm} = 14.9^1$)
Buffer	10 mM Sodium phosphate (pH 7.2), 150 mM NaCl, 0.1% sodium azide
Storage	-20 to -70°C. Avoid repeated freeze-thaws
Source	Pooled cat serum

Haptoglobin is a serum protein that consists of two alpha and two beta chains connected by disulfide bridges. The alpha and beta chains are characterized by molecular weights of ~10 kDa and ~40 kDa respectively. It acts as a hemoglobin scavenger and has been associated with protease inhibitory activity. It is a positive acute phase reactant, the levels of which increase significantly in cats in response to inflammation, tissue injury or disease. Haptoglobin is purified using a combination of affinity and gel filtration chromatography steps.

P.O. Box 5205 • West Chester PA 19380 • USA

¹ This extinction coefficient was derived for dog haptoglobin for which the entire amino acid sequence is known. The published partial sequence (121 AA's) of cat haptoglobin has 89% identity with dog haptoglobin. The same extinction coefficient was therefore used to estimate concentration.