

# ***Life Diagnostics, Inc.***

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## ***Canine Haptoglobin***

Catalog No.	8120
Analysis	SDS PAGE: ~40 & ~10 kDa bands indicative of $\beta$ - and $\alpha$ - chains of haptoglobin.
Purity	$\geq 90\%$
Concentration	0.5 2.5 mg/ml (Bradford assay vs. BSA)
Buffer	10 mM sodium phosphate (pH 7.2), 150 mM NaCl, 0.05% sodium azide
Storage	-20 to -70°C. Avoid repeated freeze-thaws
Source	Fresh frozen canine 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 dogs in response to inflammation, tissue injury or disease. Haptoglobin is purified using a combination of affinity, gel filtration and ion-exchange chromatography steps.

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