

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

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## ***Rat $\alpha$ -1-Acid Glycoprotein***

Catalog No.	8310
Analysis	SDS PAGE: ~40 kDa band,
Purity	$\geq 90\%$
Concentration	1 - 5 mg/ml (Assuming an $E_{280}$ of 24,138 $\text{cm}^{-1}\text{M}^{-1}$ and a molecular weight of 44,000 Da)
Buffer	150 mM NaCl, 10 mM sodium phosphate, 0.05% $\text{NaN}_3$ (pH 7.4)
Storage	-20°C
Source	Normal rat serum

$\alpha$ -1-Acid glycoprotein (A1AGP) is one of the most acidic proteins found in serum. It has a molecular weight of approximately 44 kDa with a high (~45%) content of carbohydrate. The molecular weight of the non-glycosylated polypeptide is 23.5 kDa. It is a positive acute phase reactant, the levels of which increase significantly in rats in response to inflammation, tissue injury and disease. A1AGP is purified using a combination of acid extraction, precipitation, gel filtration and ion-exchange chromatography steps.

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