

Life Diagnostics, Inc.

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Cat α -1-Acid Glycoprotein

| | |
|---------------|---|
| Catalog No. | 8330 |
| Analysis | SDS PAGE: ~40 Da band, ~90% |
| Concentration | 0.25 - 2 mg/ml (assuming an extinction coefficient at 280 nm of 1.2 ¹ for a 1 mg/ml solution, path length = 1cm) |
| Buffer | 150 mM NaCl, 10 mM sodium phosphate, 0.05% NaN ₃ (pH 7.4) |
| Storage | -20°C |
| Source | Cat serum |

α -1-Acid glycoprotein (A1AGP) is one of the most acidic proteins found in serum. It has a molecular weight of approximately 40 kDa with a high (~45%) content of carbohydrate. It is a positive acute phase reactant, the levels of which increase significantly in cats in response to inflammation, tissue injury and disease. A1AGP is purified using a combination of acid extraction, precipitation, gel filtration and affinity chromatography steps.

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¹ At the time of purification, the sequence for cat A1AGP had not been published and its extinction coefficient could not be derived directly. The extinction coefficient used was based on an average of the extinction coefficients for rat, mouse, human, bovine and rabbit A1AGP's.