

Product Data Sheet

Bison Serum IgG (Control, non-immune), semi-pure for ELISA

Cat# 20025-1

Size: □ 100 ug



Bison are large, even-toed ungulates in the genus *Bison* within the subfamily Bovinae. Two extant and four extinct species are recognized. Of the four extinct species, three were North

American: *Bison antiquus*, *B. latifrons*, and *B. occidentalis*. The fourth, *B. priscus*, ranged across steppe environments from Western Europe, through Central Asia, and onto North America. Of the two surviving species, the American bison, *B. bison*, found only in North America, is the more numerous. Although sometimes referred to historically as a "buffalo", it is only distantly related to the true buffalo. The North American species is composed of two subspecies, the plains bison, *B. b. bison*, and the wood bison, *B. b. athabasca*, which is the namesake of Wood Buffalo National Park in Canada. The European bison *B. bonasus*, or wisent, is found in Europe and the Caucasus, reintroduced after being extinct in the wild. While all bison species are classified in their own genus, they are sometimes bred with the cattle of *Bos* and produce fertile offspring called beefalo (1).

A healthy non-immunized population of North American Bisons (*B. bison*) was used to collect serum. IgG was prepared by ammonium sulfate, and column chromatography (Sephadex, and DEAE-ion exchange columns). The resulting preparation was judged to be >80% pure by IEP.

Form and Storage

The normal Bison IgG is provided as liquid (1 mg/ml in PBS pH 7.4 + sodium azide as preservative) or in lyophilized form. The product should be **stored at 4°C** for short term and -20oC for long term storage. It is stable for a minimum of 1 year. Do not store diluted solutions.

The **lyophilized products** should be dissolved in PBS, pH 7.4 (1 mg/ml by gentle rocking or vortexing at room temperature. Centrifuge the IgG solution briefly (10,000 g, 15 min) to remove any particulate matter. It should be aliquoted and stored frozen for long term use.

Suggested Uses

This preparation of normal Bisons IgG is suitable for coating the ELISA plates or as a non-immune control for ELISA, dot blot, Western or IHC. Recommended testing concn. is approx. 1-10 ug/ml. It is, however, possible that this preparation may be unsuitable for some antigens or cell/tissue extracts and may give slightly higher background. Switching to another preparation from different Bison or vendor may alleviate this problem. The purified IgG may have some residual Bison IgM or IgA.

References: 1). <http://en.wikipedia.org/wiki/Bison>

This product is for in vitro research use only.

MSDS: [A Material Safety Data Sheet is not required for this product. The product does not contain any hazardous components above 1% or any carcinogens above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. The product contains natural purified proteins in a buffer containing 0.1% or less sodium azide. MSDS can be consulted for these items. Please note that although the product is defined as not hazardous, it is still advisable to follow prudent laboratory practices when handling laboratory reagents.](#)

[This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, diagnostic, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.](#)

Related items available

Catalog#	ProdDescription
20025-1	Bison IgG, semi-pure for ELISA (Control, non-immune, isotype control)
900-125-83G	Bison Anti-Anthrax Protective Antigen 83 (PA83) IgG ELISA kit, 96 tests
900-126-LFG	Bison Anti-Anthrax Lethal Factor (LF) IgG ELISA kit, 96 tests
900-127-EFG	Bison Anti-Anthrax Edema Factor (EF) IgG ELISA kit, 96 tests
80521-F	Anti-Bison IgG (H+L)-FITC conjugate
80521-HP	Anti-Bison IgG (H+L)-HRP conjugate
80521-UL	Anti-Bison IgG (H+L), unlabeled
20025-1-Normal-Bison-IgG	150506A

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