ELISA Grade Bovine Type I Collagen

Catalog # 1002

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	Highly purified type I collagen (treated with 3M guanidine, DEAE-cellulose, and Na2HPO4)
APPLICATION:	Use as an ELISA antigen to detect antibodies specific to Bovine type I collagen in sera from experimental animals and humans, such as collagen-induced arthritis (CIA) models and patients with arthritis or other diseases, as well as normal controls to study the diversity of anti-collagen antibodies.
QUANTITY:	1 ml
FORM:	0.5 mg/ml solution in 0.05M acetic acid
SOURCE:	Bovine skin
MOLECULAR WEIGHT:	300 kDa
PURITY:	>99% by SDS-PAGE, free of pepsin and proteoglycans
USAGE:	Chondrex, Inc. recommends diluting this product with cold 1X Collagen Dilution Buffer, (10X Collagen Dilution Buffer, Cat # 9003 as provided with this product), to prevent collagen molecules from aggregating. For plate coating, take aliquots of ELISA grade collagen and dilute them with cold 1X Collagen Dilution Buffer just before use. Do not keep diluted collagen solutions. The optimum collagen concentration to coat ELISA plates is 5 µg/ml, but this may vary based on the assay or type of plate used, such as cell culture plates.
STORAGE:	-20°C. This product is stable in acidic conditions at 4°C for several weeks or at -20°C in the dark for one year as supplied but will gradually form polymeric collagen and degrade under neutral conditions.
STABILITY:	1 year
NOTES:	N/A
REFERENCES:	Seyer J. *et al. Clin. Invest*. **59**: 241-248 (1977)
	Terato K. *et al. Arthritis Rheumatism* **33**: 1493-1500 (1990)
	Terato K. *et al. Clin. Immunol. Immunopathol*. **79**: 142-154 (1996)

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16928 Woodinville-Redmond Rd NE Suite B-101
Woodinville, WA 98072

Phone: 425.702.6365 or 888.246.6373
Fax: 425.882.3094

www.chondrex.com
support@chondrex.com