

MD Biosciences

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FOR RESEARCH USE ONLY

Arthrogen-CIA[®] Collagen ELISA Grade Type I and Type II Collagen

Introduction

Polymeric or fibrillar collagen adsorbs immunoglobulins in serum samples, secondary antibodies and avidin-peroxidase nonspecifically, creating high, false-positive reactions. It also affects on the assay sensitivity significantly. To prevent these and to obtain consistent assay results, Highly purified, polymeric-free, **Arthrogen-CIA[®] ELISA Grade Collagen** are available. Various species and types of collagen are available in order to study antibody specificity and crossreactivity (see Table I).

Species	Quality	Catalog #
Type II Collagen		
Chicken	500 µg	ELCII
Bovine	500 µg	ELBII
Porcine	500 µg	ELPII
Rat	500 µg	ELRII
Human	500 µg	ELHI
Mouse	500 µg	ELMsII
Monkey	500 µg	ELMkII
Type I Collagen		
Chicken	500 µg	ELCI
Bovine	500 µg	ELBI
Porcine	500 µg	ELPI
Rat	500 µg	ELRI
Human	500 µg	ELHI
Mouse	500 µg	ELMsI

Table 1. Arthrogen-CIA[®] ELISA Grade Collagen

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Highly purified **Arthrogen-CIA® ELISA Grade Collagen** to be used for antibody analysis is supplied as a sterile 100X concentrated solution (500 µg/ml. vial). Each vial contains enough collagen to coat 10, 96-well plates. To prevent fibril formation, 10X dilution buffer is also supplied.

Procedure For Coating ELISA Plates with Type I & II Collagen

1. Dilute 1.0 ml of 10X Dilution Buffer with 9.0 ml glass-distilled water.
2. Add 100 µl of Arthrogen-CIA® ELISA Grade Type II Collagen solution to 10.0 ml of 1X dilution buffer prepared in step 1, on ice.
3. Add 100 µl of the diluted collagen solution to each well and incubate at overnight at 4°C (cover the ELISA plate to prevent evaporation).

NOTE: The binding efficiency of collagen on ELISA plates depends upon the type of plastic used in making the plate and pre-treatment of the surface. Therefore, it is recommended that **Arthrogen-CIA® Mouse Monoclonal Antibody** be used as a positive control or to study the binding efficiency of individual species or types of collagen on ELISA plates.