



コラーゲン技術研修会

COLLAGEN RESEARCH CENTER  
1-10-1 Kamikiyoto, Kiyose, Tokyo 204-0013, Japan  
Phone.+81-424-95-1995 FAX.+81-424-95-1990

## 製品仕様

製品番号 : K42  
製品名 : Type II Collagen, Bovine  
用途 : コラーゲン関節炎の作製

項目	規格	測定法他
形状	凍結乾燥品	
容量	24 mg / Vial (防腐剤無し)	
保存	長期: -40℃以下 短期: -20℃	
原料	ウシ関節軟骨	目視
抽出	酸・ペプシン・他	
蛋白濃度	99.0-101.0 %	
コラーゲン含量	99.0-101.0 %	
旋光度(未変性)	221nm にピーク波長	CD(円偏光二色性)
II 型の確認	標準に一致 抗体との反応	電気泳動 ブロットング(又は ELISA)
純度	II 型以外を認めない	電気泳動
滅菌	ろ過滅菌	

- \* 「K41 (8mL/Tube)」は「K42」と同一規格の液状品です。
- \*\* 「K42 凍乾品」の品質試験は、「K41 液状品」の状態で行われます。
- \*\*\* コラーゲンの溶解は 2-8℃でゆっくり攪拌させながら行ってください。

本品を用いた実験書例 : 「炎症とアレルギー(I-2)」大内和雄編 広川書店 1993  
実験参考図書 : 「細胞外マトリクス研究法」[5] 畑隆一郎 他 編 コラーゲン技術研修会 1999  
: 「免疫研究の基礎技術」高津聖志 他 編 羊土社 1995

コラーゲン技術研修会は、1981 年、本製品を世界で最初に製品化しました。  
本品の開発には東京医科歯科大学永井教授とそのグループのご指導がありました。開発以来、本製品はこの分野の標準品として知られ、多くの文献で紹介されています。

## 関連製品

### Type I Collagen 製品

品名	包装	メーカー	品番
Type I Collagen (Liquid), Bovine	50 ML	MCK	K31
Type I Collagen FITC (Liquid), Bovine	10 ML	MCK	K21
Type I Collagen FITC (Lyophilized powder), Bovine / K-22	10 MG	MCK	K21MATU

### Type II Collagen 製品

品名	包装	メーカー	品番
Type II Collagen (Liquid), Human	200 UL	MCK	K49
Type II Collagen (Lyophilized powder), Monkey	100 UG	MCK	K49S
Type II Collagen (Liquid), Bovine	200 UL	MCK	K46
Type II Collagen (Liquid), Bovine	8 ML	MCK	K41
Type II Collagen (Lyophilized powder), Bovine	24 MG	MCK	K42
Type II Collagen (Liquid), Rat	200 UL	MCK	K45
Type II Collagen (Liquid), Porcine	200 UL	MCK	K48
Type II Collagen (Lyophilized powder), Porcine	10 MG	MCK	K44
Type II Collagen (Liquid), Chicken	200 UL	MCK	K47
Type II Collagen (Lyophilized powder), Chicken	10 MG	MCK	K43
Type II Collagen Antibody Screening Kit, Human	96 TEST	MCK	K71
Type II Collagen Antibody Screening Kit, Rat	96 TEST	MCK	K72
Type II Collagen Antibody Screening Kit, Mouse	96 TEST	MCK	K73
Anti Type II Collagen Polyclonal Antibody, Bovine	50 UL	MCK	K51
Anti Type II Collagen Monoclonal Antibody (A2), Chicken	20 UL	MCK	K52

### Type IV Collagen 製品

品名	包装	メーカー	品番
Type IV Collagen (Lyophilized powder), Human	1 MG	MCK	K34
Type IV Collagen NC1 (Liquid), Bovine	1 ML	MCK	K35
Type IV Collagen measurement Kit	1 KIT	MCK	K79L
Type IV Collagen NC1 Antibody Screening Kit, Human	1 KIT	MCK	K36H
Type IV Collagen NC1 Antibody Screening Kit, Monkey	1 KIT	MCK	K36S
Type IV Collagen NC1 Antibody Screening Kit, Bovine	1 KIT	MCK	K35KIT
Type IV Collagen NC1 Antibody Screening Kit, Rat	1 KIT	MCK	K36R
Anti Type IV Collagen Polyclonal Antibody, Human	100 UG	MCK	K34POLY
Anti Type IV Collagen NC1 Polyclonal Antibody, Bovine	100 UL	MCK	K35POLY
Anti Type IV Collagen NC1 Polyclonal Antibody (purified), Bovine	50 UL	MCK	K35APPOLY
Anti Type IV Collagen NC1 Monoclonal Antibody (12D), Bovine	50 UL	MCK	K35MONO

### Collagen 関連製品

品名	包装	メーカー	品番
Collagenase (Tadpole), Frog	10 UL	MCK	K10
Collagenase (vibrio Hollisae) ,Bacteria	1 ML	MCK	K30
Collageno Kit CLN100	100 TEST	MCK	K11
Collageno Kit Typell	48 TEST	MCK	K12
Collagen Staining and Measurement Kit	50 TEST	MCK	K61
Collagen Staining reagent (Red)	30 ML	MCK	K62
Deoxypyridinoline ,Bovine	1 UG	MCK	K81
Pyridinoline ,Bovine	10 UG	MCK	K82
4-Hydroxyproline	2 G	MCK	K84
TMB100	2*100 ML	MCK	TMB

製造元 : コラーゲン技術研修会[MCK]



**COSMO BIO Co., LTD.**

Inspiration for Life Science

TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: <http://www.cosmobio.co.jp>

e-mail: [export@cosmobio.co.jp](mailto:export@cosmobio.co.jp)

[Outside Japan] Phone : +81-3-5632-9617

[国内連絡先] Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619



コラーゲン技術研修会

COLLAGEN RESEARCH CENTER  
1-10-1 Kamikiyoto, Kiyose, Tokyo 204-0013, Japan  
Phone.+81-424-95-1995 FAX.+81-424-95-1990

## Product specification

**Product No.** : K42  
**Description** : Type II Collagen, Bovine  
**Usage** : The collagen arthritis model's making

Paragraph	Specification	Measuring method
Form	Lyophilized powder	
Volume	24 mg / Vial Contains NO preservatives	
Storage	Store below -20°C (below -40°C for prolonged storage)	
Raw material	Bovine Articular Cartilage	Visual observation
Purification	Acid / Pepsin / Other	
Protein Concentration	99.0—101.0 %	
Collagen content	99.0—101.0 %	
Angular rotation (native)	peak wavelength in 221 nm	CD (circular dichroism)
Quality Control of type II	Agreement with standard Reaction to antibody	Electrophoresis Blotting or ELISA
Purity	Only the type II collagen recognition	Electrophoresis
Sterilization	Filtration sterilization	

- \* "K41" is the liquid product of the same standard to "K42".
- \*\* The quality control of "K42( Lyophilized powder) " was done in the state of "K41 (liquid)".
- \*\*\* Collagen is dissolved while slowly stirring at 2-8°C.

本品を用いた実験書例 : 「炎症とアレルギー(I-2)」大内和雄編 広川書店 1993  
実験参考図書 : 「細胞外マトリクス研究法」[5] 畑隆一郎 他 編 コラーゲン技術研修会 1999  
: 「免疫研究の基礎技術」高津聖志 他 編 羊土社 1995

“Type II Collagen” is a product that was the world's first commercialized by COLLAGEN RESEARCH CENTER in 1981 and is recognized as a standard of this field that the numbers of references are published. The development of this product was supported by Dr. Nagai of Tokyo Medical & Dental University and his group.

## Related Product

### Type I Collagen Products

Description	Quantity	Manufacturer	Product No.
Type1 collagen (Liquid), Bovine	50 ML	MCK	K31
Type I Collagen FITC (Liquid), Bovine	10 ML	MCK	K21
Type I Collagen FITC (Lyophilized powder), Bovine / K-22	10 MG	MCK	K21MATU

### Type II Collagen Products

Description	Quantity	Manufacturer	Product No.
Type II Collagen (Liquid), Human	200 UL	MCK	K49
Type II Collagen (Lyophilized powder), Monkey	100 UG	MCK	K49S
Type II Collagen (Liquid), Bovine	200 UL	MCK	K46
Type II Collagen (Liquid), Bovine	8 ML	MCK	K41
Type II Collagen (Lyophilized powder), Bovine	24 MG	MCK	K42
Type II Collagen (Liquid), Rat	200 UL	MCK	K45
Type II Collagen (Liquid), Porcine	200 UL	MCK	K48
Type II Collagen (Lyophilized powder), Porcine	10 MG	MCK	K44
Type II Collagen (Liquid), Chicken	200 UL	MCK	K47
Type II Collagen (Lyophilized powder), Chicken	10 MG	MCK	K43
Type II Collagen Antibody Screening Kit, Human	96 TEST	MCK	K71
Type II Collagen Antibody Screening Kit, Rat	96 TEST	MCK	K72
Type II Collagen Antibody Screening Kit, Mouse	96 TEST	MCK	K73
Anti Type II Collagen Polyclonal Antibody, Bovine	50 UL	MCK	K51
Anti Type II Collagen Monoclonal Antibody (A2), Chicken	20 UL	MCK	K52

### Type IV Collagen Products

Description	Quantity	Manufacturer	Product No.
Type IV Collagen (Lyophilized powder), Human	1 MG	MCK	K34
Type IV Collagen NC1 (Liquid), Bovine	1 ML	MCK	K35
Type IV Collagen measurement Kit	1 KIT	MCK	K79L
Type IV Collagen NC1 Antibody Screening Kit, Human	1 KIT	MCK	K36H
Type IV Collagen NC1 Antibody Screening Kit, Monkey	1 KIT	MCK	K36S
Type IV Collagen NC1 Antibody Screening Kit, Bovine	1 KIT	MCK	K35KIT
Type IV Collagen NC1 Antibody Screening Kit, Rat	1 KIT	MCK	K36R
Anti Type IV Collagen Polyclonal Antibody, Human	100 UG	MCK	K34POLY
Anti Type IV Collagen NC1 Polyclonal Antibody, Bovine	100 UL	MCK	K35POLY
Anti Type IV Collagen NC1 Polyclonal Antibody (purified), Bovine	50 UL	MCK	K35APPOLY
Anti Type IV Collagen NC1 Monoclonal Antibody (12D) , Bovine	50 UL	MCK	K35MONO

### Collagen Related Products

Description	Quantity	Manufacturer	Product No.
Collagenase (Tadpole), Frog	10 UL	MCK	K10
Collagenase (vibrio Hollisae) ,Bacteria	1 ML	MCK	K30
Collageno Kit CLN100	100 TEST	MCK	K11
Collageno Kit Typell	48 TEST	MCK	K12
Collagen Staining and Measurement Kit	50 TEST	MCK	K61
Collagen Staining reagent (Red)	30 ML	MCK	K62
Deoxypyridinoline ,Bovine	1 UG	MCK	K81
Pyridinoline ,Bovine	10 UG	MCK	K82
4-Hydroxyproline	2 G	MCK	K84
TMB100	2*100 ML	MCK	TMB

Manufactured by COLLAGEN RESEARCH CENTER [MCK]



**COSMO BIO Co., LTD.**

Inspiration for Life Science

TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: <http://www.cosmobio.co.jp>

e-mail: [export@cosmobio.co.jp](mailto:export@cosmobio.co.jp)

[Outside Japan] Phone : +81-3-5632-9617

[国内連絡先] Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619