

Cellmatrix®

Collagens for three-dimensional culture / for coating





Type I-A can quickly form a gel before the cells sink to the bottom of the culture dish. The gel is highly transparent, allowing easy observation of the cells embedded in the collagen gel.

- Collagen solution at pH 3 with a concentration of 3 mg/mL
- Storage condition: 4°C to 8°C

Cellmatrix® Type I - A

- · Ideal for collagen gel culture
- · Acid extracted collagen derived from porcine tendons
- Expiration date: One year from the date of manufacture

Cellmatrix® Type I - P

- · For collagen gel culture and collagen-coated culture
- Pepsin-solubilized collagen derived from porcine tendons
- Expiration date: Two years from the date of manufacture

Cellmatrix® Type I - C

- · For collagen-coated culture
- · Pepsin-solubilized collagen derived from porcine skin
- Expiration date: Two years from the date of manufacture

Reagents for collagen gel preparation







■ Storage condition: 4°C to 8°C ■ Expiration date: In four months

Collagen-gel culturing kit

Contents

Cellmatrix® Type I -A 20 mL One bottle
Concentrared culture medium (Ham's F-12) 5 mL One bottle
Concentrared culture medium (MEM-Hank's) 5 mL One bottle
Reconstitution buffer 4 mL Five bottles

Concentrated culture medium

Concentrated culture medium for collagen gel culture

Some items are made to order

Ham's F-12 concentrated culture medium

10x concentrated product:

5x concentrated product:

- DME concentrated culture medium
- MEM-Hanks' concentrated culture medium
 RPMI-1640 concentrated culture medium
- DF concentrated culture medium(DME: F-12=1:1)
- 199 concentrated culture medium

Reconstitution buffer

Buffer solution for reconstitution, for collagen gel culture

Composition

Sodium hydroxide 50 mM Sodium hydrogen carbonate 260 mM HEPES 200 mM

Method of collagen gel culture

- 1) Prepare the following reagents.
 - A: Cellmatrix® Type I-A or I-P
 - B: 10x* concentrated culture medium
 - C: Reconstitution buffer
- 2) Under cooling condition, mix A and B well, being careful not to create bubbles. Then add C and mix them in the same way. *: In the case of using 5x concentrated culture medium, set the ratio of A:B:C to 7:2:1.

Cultivation on collagen gel

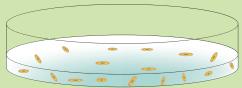
A method to culture the cells on the collagen gel



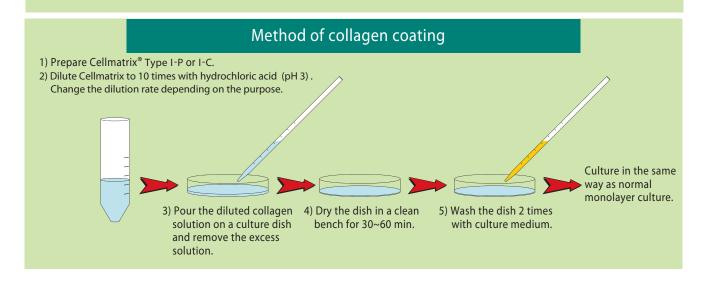
- 3) Pour the cooled mixed collagen solution to a culture dish and warm it at 37°C for about 30 minutes to form collagen gel.
- 4) Seed the cells on the collagen gel.
- 5) After the cells adhere to the collagen gel, culture in the same way as normal monolayer culture.

Collagen gel-embedded culture

A method of three-dimensional cell culture in collagen gel



- 3)' Under cooling conditions, add the cell suspension to the mixed collagen solution and mix them well.
- 4)' Pour the solution prepared above onto a culture dish and warm it at 37°C for about 30 minutes to form a gel.
- 5)' After gel formation, overlay the culture medium and culture in the same way as normal monolayer culture.



Products list

Product name	Content
Cellmatrix® Type I – A	20 mL
Cellinatiix Type I A	100 mL
Collmatriv® Type I – D	20 mL
Cellmatrix® Type I – P	100 mL
Colleget vive Type I – C	20 mL
Cellmatrix® Type I – C	100 mL
Collagen-gel culturing kit	1 kit
Ham's F-12 concentrated culture medium	100 mL
MEM-Hank's concentrated culture medium	100 mL
DF concentrated culture medium	100 mL
199 concentrated culture medium	100 mL
DME concentrated culture medium	100 mL
RPMI-1640 concentrated culture medium	100 mL
Reconstitution buffer	4 mL × 15 bottles



Collagen / Gelatin for tissue engineering

beMatrix®

Low endotoxin collagen



beMatrix® collagen AT

Acid extracted collagen solution derived from porcine tendon

Endotoxin level: NMT 0.5 EU/mL

Storage condition: 4°C to 8°C

Expiration date: Two years from the date of manufacture

Concentration: 3 mg/mL, pH 3



beMatrix® collagen FD2.0

Lyophilized pepsin-solubilized collagen derived from porcine skin Possible to adjust high concentrated solution

- Endotoxin level: NMT 100 EU/g
- Validated viral inactivation
- Documented traceability up to the farm
- Storage condition: Room temperature
- Expiration date: Two years from the date of manufacture

Application

- Scaffold for cell culture / transplantation
- Electrospinning etc.

Products list

Product name	Content
beMatrix® collagen AT	100 mL
beMatrix® collagen FD2.0	10 g



Low endotoxin gelatin

Endotoxin level: NMT 10EU/g

Virus inactivated

■ IPEC-PQG GMP compliant

Performed USP & JP methods testing

DMF/MAF registered *1

Storage condition: Room temperature

Expiration date: Three years from the date of manufacture



beMatrix® gelatin LS - H

Alkaline-treated gelatin derived from porcine skin

· High gel strength: 300 g

beMatrix[®] gelatin LS - 250

Alkaline-treated gelatin derived from porcine skin

• High gel strength: 250 g

γ -ray irradiated

beMatrix® gelatin LS - W

■ Made to order product

Alkaline-treated gelatin derived from porcine skin

• Low gel strength: 100 g

Safety Test

Test Item	Cytotoxicity	Sensitization	Intradermal Reaction	Pyrogen	Antigenicity
Result	Negative	Negative	Negative	Negative	Negative

beMatrix® gelatin HG

• Hydrolyzate of alkaline-treated gelatin derived from porcine skin

· Non gelling grade

γ -ray irradiated

Safety Test

Test Item	Cytotoxicity	Sensitization	Intradermal Reaction	Pyrogen	Antigenicity	Acute Systemic Toxicity	Subacute Toxicity
Result	Negative	Negative	Negative	Negative	Negative	Negative	Negative

Endotoxin Level MT tens of thousands EU/g NMT 200EU/g NMT 10EU/a beMatrix[®] LET gelatin Gelatin gelatin

Products list

Product name	Content
beMatrix® gelatin LS-H	10 g
beMatrix® gelatin LS-250	10 g
beMatrix® gelatin LS-W	Please contact us
beMatrix® gelatin HG	10 g

*1: some items are not eligible for registration



MedGel® III

Hydrogel for sustained release of drugs

- Simple use just by adding drug.
- Drug stabilization in vivo, site-specific drug release.
- No chemical crosslinking agent used.



MedGel® Sheet **II** (PI5)

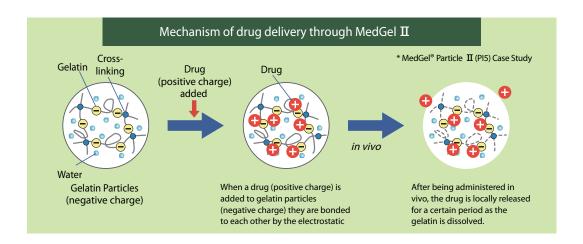
- Storage condition: Room temperature
- Expiration date: Two years from the date of manufacture
- pl (isoelectric point): Approximately 5

Negative charge in neutral solution

MedGel[®] Particle **II** (PI5)

- Storage condition: Room temperature
- Expiration date: Two years from the date of manufacture
- pl (isoelectric point): Approximately 5

Negative charge in neutral solution



Products list

Product name	Content
MedGel® Sheet II (PI5)	150 mg
MedGel® Particle II (PI5)	100 mg

MedGel* is a registered trademark of MedGEL Corporation. These products are licensed to manufacture and sell from MedGEL Corporation.



Other products line-up

Gelatin LET - NP250

Low endotoxin gelatin derived from acid-treated porcine skin

- Performed USP & JP methods testing
- Endotoxin level: NMT 200 EU/g
- Storage condition: Room temperature
- Expiration date: Three years from the date of manufacture



Collagen BM

Pepsin-solubilized collagen derived from porcine skin

- Storage condition : Stored frozen
- Expiration date: Two years from the date of manufacture
- Concentration: 5 mg/mL, pH 3



Products list

Product name	Content
Gelatin LET-NP250	50 g
Collagen BM	1 kg





Research & Development Center Biomedical Department

2-22 Futamata, Yao-shi, Osaka 58l-0024 JAPAN E-mail: info-bematrix@nitta-gelatin.co.jp

FUJ!FILM

Value from Innovation



富士胶片和光(广州)贸易有限公司 FUJIFILM Wako(Guangzhou) Trading Corporation

官网:labchem.fujifilm-wako.com.cn

邮箱:wkgz.info@fujifilm.com

北京 13611333218 上海 021 62884751

广州 020 87326381 香港 852 27999019



