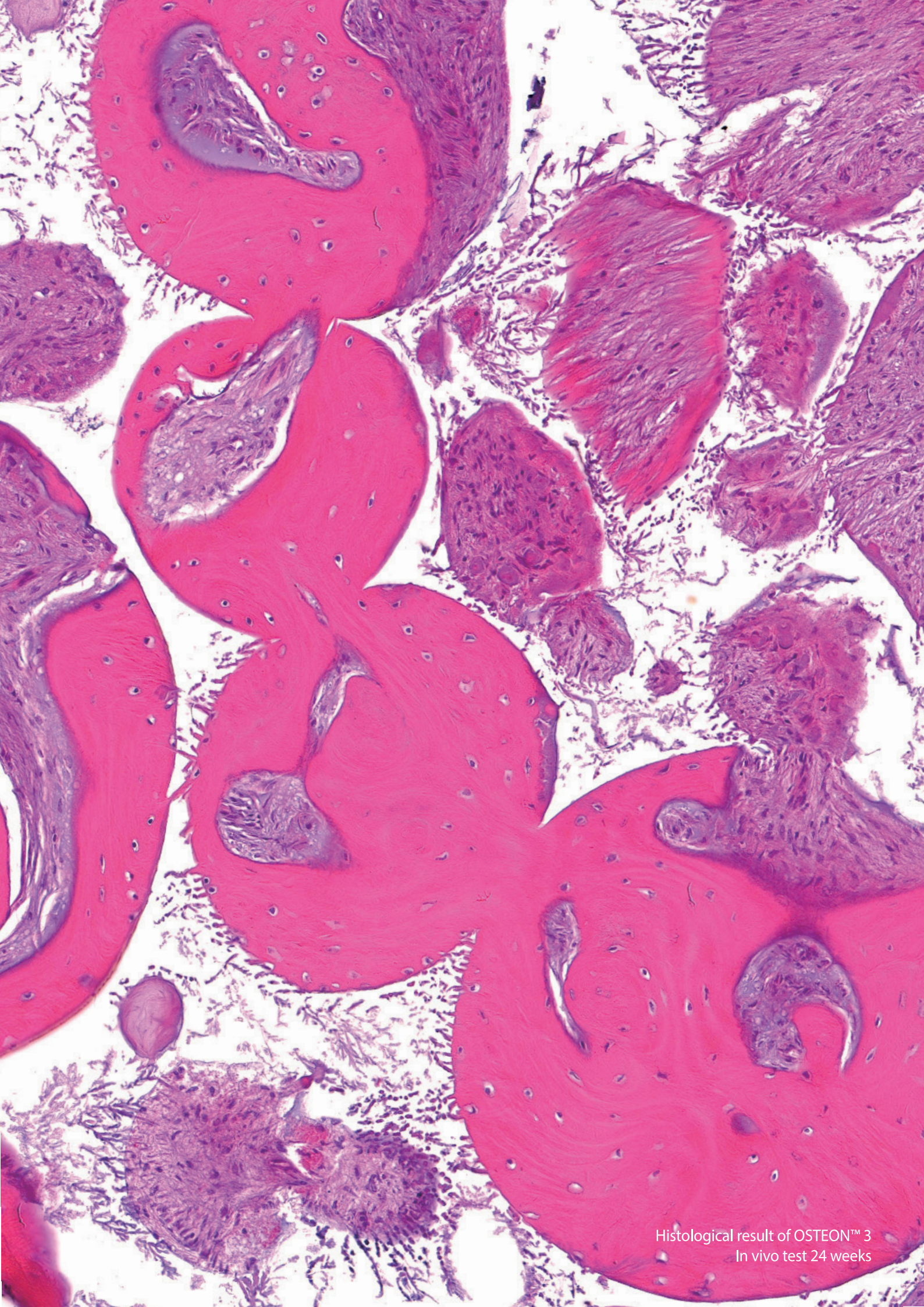


The background of the slide is a histological micrograph showing various tissue sections stained with hematoxylin and eosin (H&E). The image displays a mix of cellular structures, including what appears to be bone tissue with osteons and osteoclasts, and soft tissue with fibrous components and scattered cells. The overall color palette is dominated by shades of pink and purple.

Regeneration

Bone Grafting & Soft Tissue Management

Dentium



Histological result of OSTEON™ 3
In vivo test 24 weeks

Dentium

Regeneration Products Information

Table of Contents

Bone Graft Materials

OSTEON™ Xeno	5
OSTEON™ 3	6
OSTEON™ 3 Collagen	7
OSTEON™ Xeno Collagen	9
Order Information	10

Membrane Materials

Collagen Membrane 2	13
Collagen Membrane	14
Collagen Membrane-P	15
Collagen Graft 2	17
Order Information	18



Bone Graft Materials

OSTEON™ Xeno

Applications

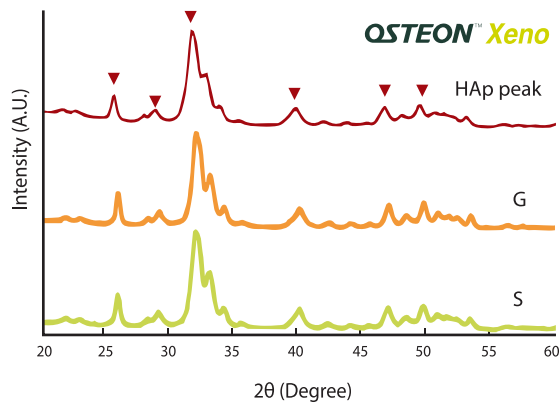
- Ridge augmentation
- Extraction site & Osteotomy
- Sinus lift
- Periodontal defect

Characteristics

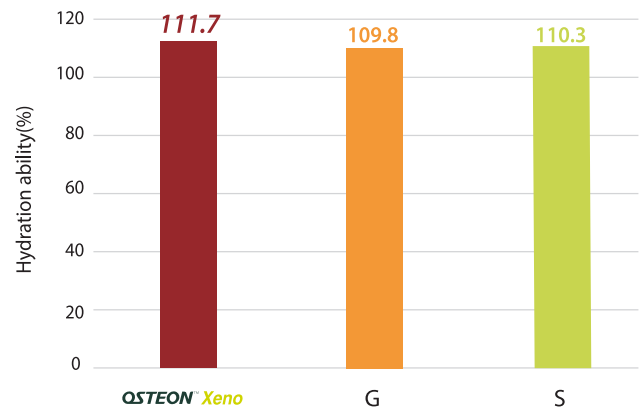
- Natural bovine bone substitute similar to human bone
- Highly interconnected macro/micro-pores
- Complete removal of organic substances
- Easy manipulation and excellent wettability



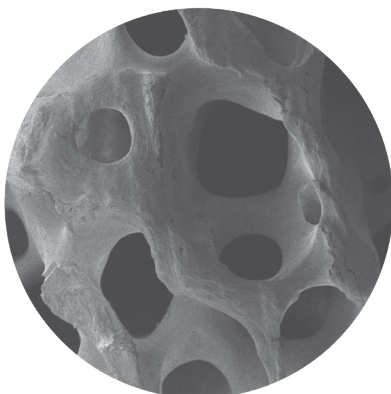
XRD spectra



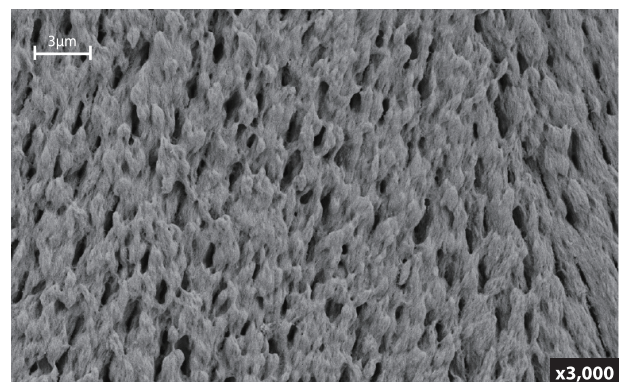
Hydration ability



Microstructures

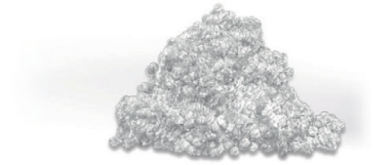


Macropore



Micropore

OSTEON™ 3

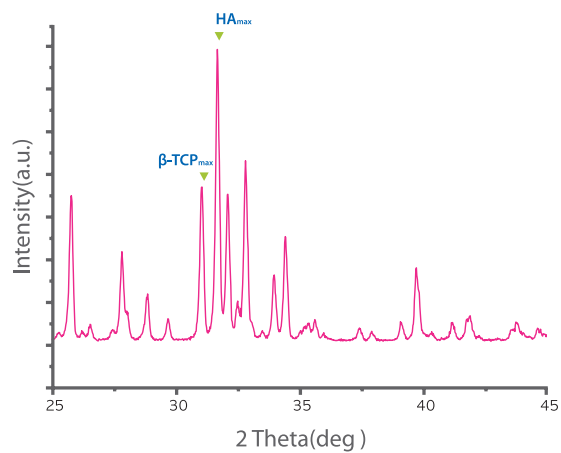


Applications

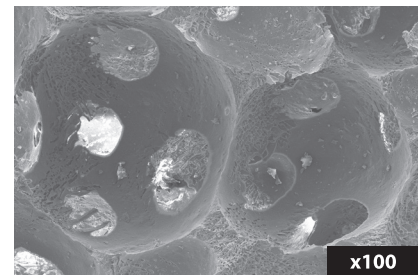
- Ridge augmentation
- Extraction site & osteotomy
- Sinus lift
- Periodontal defect

Composition

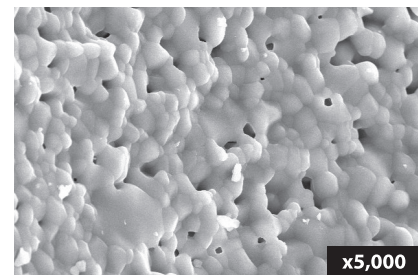
OSTEON™ 3 is a synthetic bone graft material composed of 60% HA and 40% beta-TCP



Microstructures



Macropore



Micropore

Characteristics

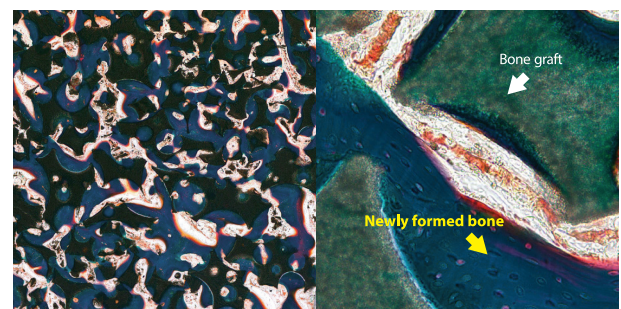
- Easy manipulation and excellent wettability
- Osteoconductive synthetic bone graft
- Larger surface area and higher porosity than OSTEON I and II (Highly inter-connected structure between macro/micro pores)

Animal Test

Rabbit calvaria model



4 weeks



8 weeks

OSTEON™ 3 Collagen

Applications

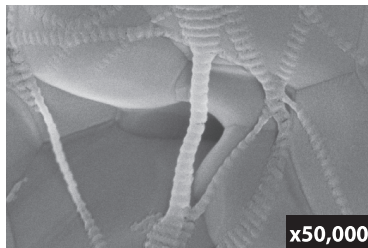
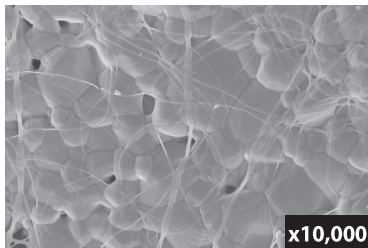
- Simple grafting (volume up)
- Ridge augmentation
- Extraction socket grafting
- Sinus lift (crestal approach)



Characteristics

- Bone void filler composed OSTEON 3 and type I collagen
- Moldable to various defect shape after being wet
- Easy handling, thus allowing reduced chair time

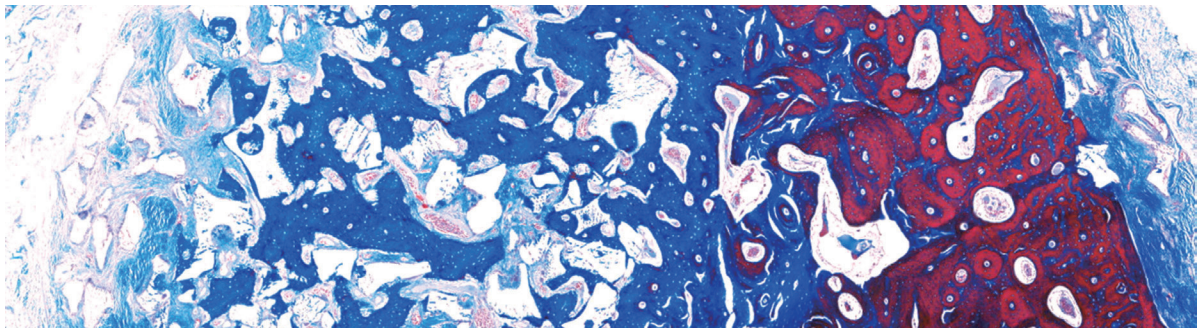
Microstructures



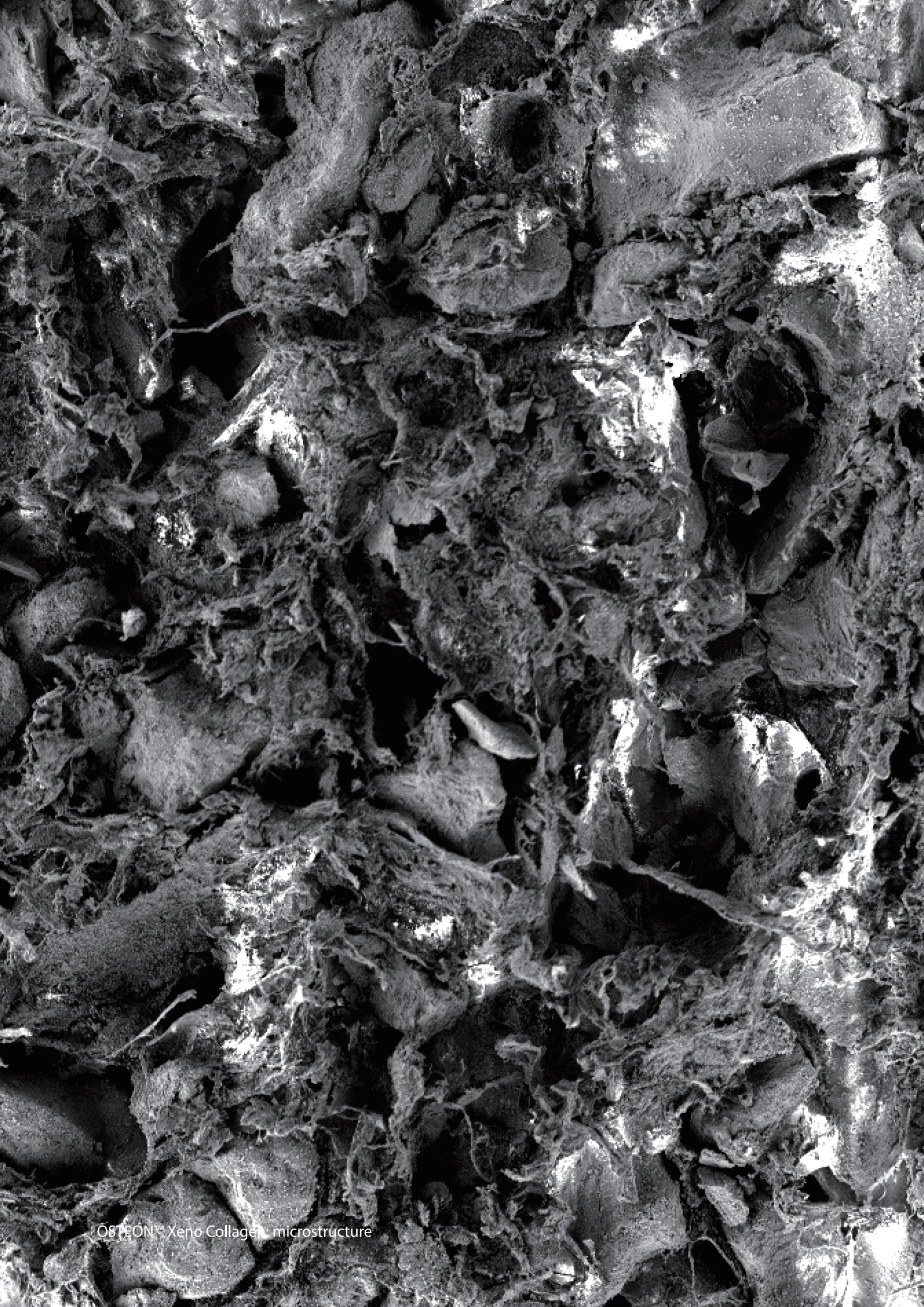
Manipulation



Animal Test



Beagle dog mandible (lateral onlay graft model), 8 weeks



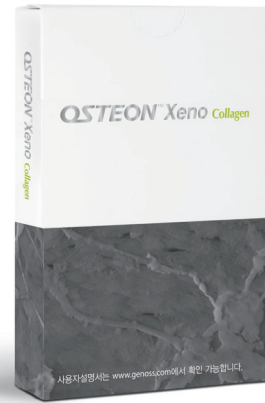
OSTEON™ Xeno Collagen

Applications

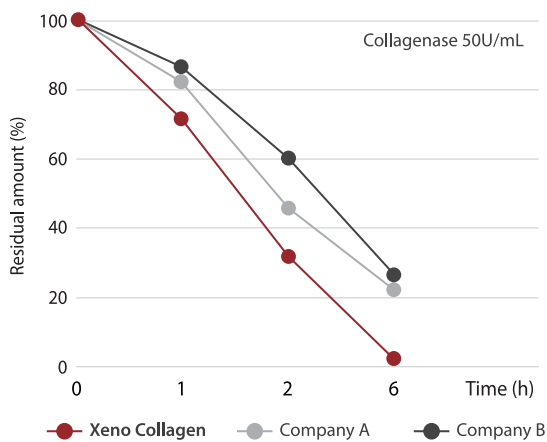
- GBR
- Contour augmentation
- Ridge preservation
- Sinus lift

Characteristics

- Bone void filler composed OSTEON Xeno and type I Collagen
- Easy handling, reducing chair time
- Collagen provides treatment convenience and is absorbed within 1~2 weeks



Collagen Degradation Rate

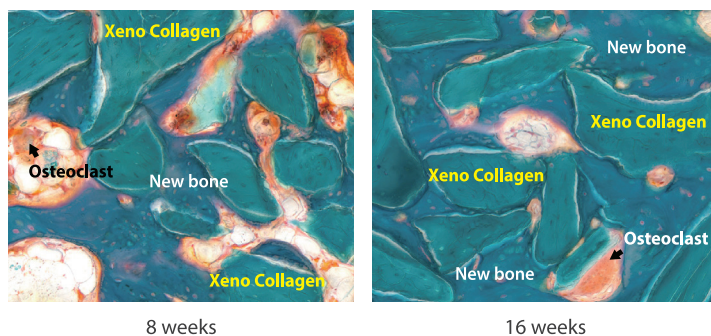


Manipulation

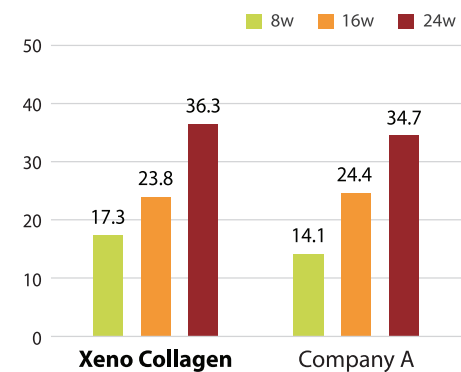


Animal Test

Rabbit calvaria model



New Bone Volume (%)



Order Information

OSTEON™ Xeno	Type	REF	Size (mm)	Weight (g)
	Vial	GXS025 GXS050 GXS100	0.2~1.0 Small	0.25/0.5/1.0
		GXL025 GXL050 GXL100	1.0~2.0 Large	0.25/0.5/1.0

OSTEON™ 3	Type	REF	Size (mm)	Volume (cc)
	Vial	3G0205010 3G0205025 3G0205050 3G0205100	0.2~0.5	0.1/0.25/0.5 1.0
		3G0510010 3G0510025 3G0510050 3G0510100	0.5~1.0	0.1/0.25/0.5 1.0
		3G1020010 3G1020025 3G1020050 3G1020100	1.0~2.0	0.1/0.25/0.5 1.0
	Sinus (Syringe)	3G0510050S 3G1020050S	0.5~1.0 1.0~2.0	0.5
	Lifting (Syringe)	3G0205025L 3G0510025L	0.2~0.5 0.5~1.0	0.25

Order Information

OSTEON™ 3 Collagen	Type	REF	Size (mm)	Particle size (mm)
	Cylinder	ND3CC0605 ND3CC0610	Ø6.0 x 5.0 Ø6.0 x 10.0	0.5~1.0
OSTEON™ Xeno Collagen	Type	REF	Diameter (mm)	Height (mm)
	Cylinder	XC0605 XC0610	6.0	5.0 10.0



A high-magnification scanning electron micrograph (SEM) of a membrane material. The image shows a cross-section of the material, which consists of a thin, dense skin layer on top of a thicker, highly porous support layer. The skin layer is composed of a network of fine, interconnected fibers. The support layer is characterized by a complex, interconnected network of larger, irregular fibers, creating a highly porous structure with many voids. The overall appearance is that of a highly textured, fibrous material.

Membrane Materials

microstructure

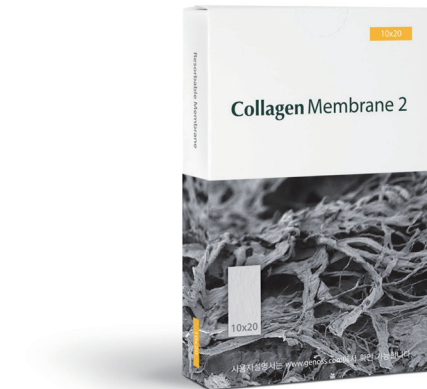
Collagen Membrane 2

Applications

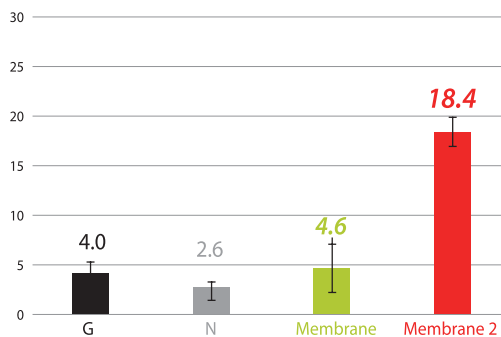
- Periodontal / infrabony defects
- Ridge augmentation
- Extraction sites (implant preparation / placement)
- Sinus lift

Characteristics

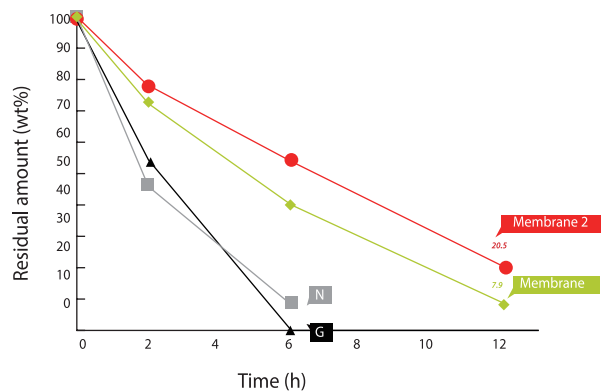
Highly pure Type I Collagen
 Resorbable barrier membrane lasting for 6 months
 Multi-layered structure
 Easy manipulation (soft, tear-resistant, fast wetting)



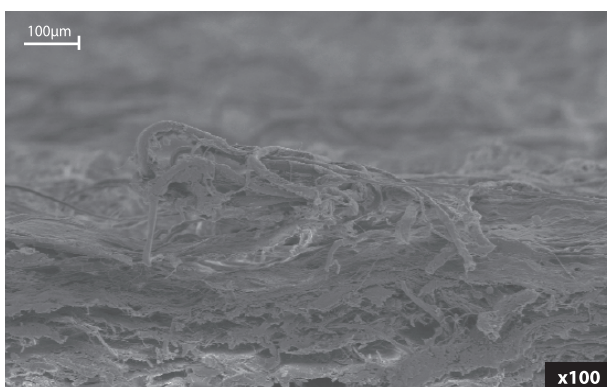
Tear force



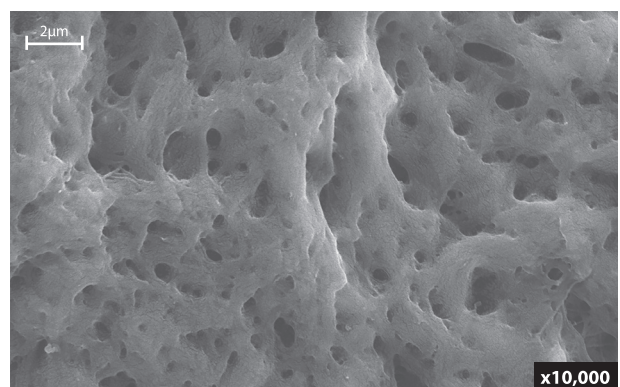
In Vitro Degradation



Microstructures



Cross section



Surface

Collagen Membrane

Applications

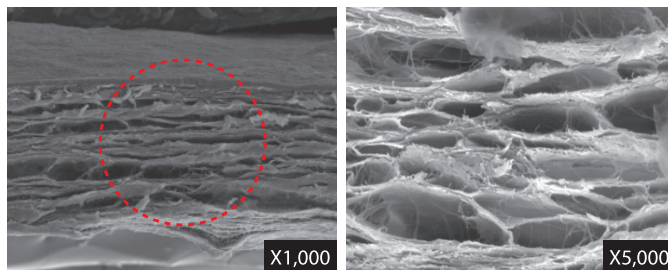
- Periodontal / infrabony defects
- Ridge augmentation
- Extraction sites (implant preparation / placement)
- Sinus lift
- GBR procedure

Characteristics

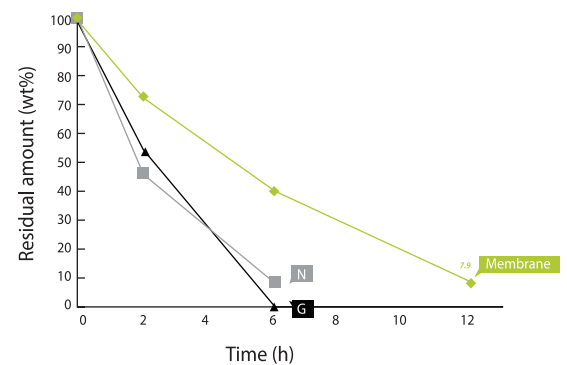
- Easy manipulation (Hard type)
- Both sides usable
- Barrier function lasting for 6 months
- Highly pure type I collagen



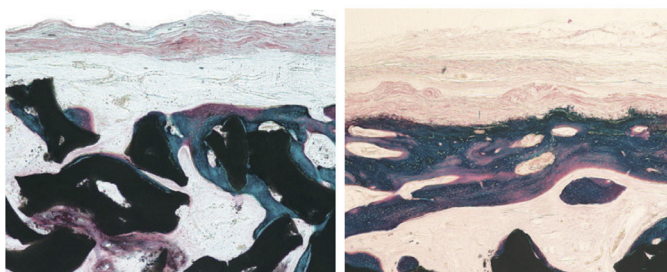
Microstructures



In Vitro Degradation



Animal Test



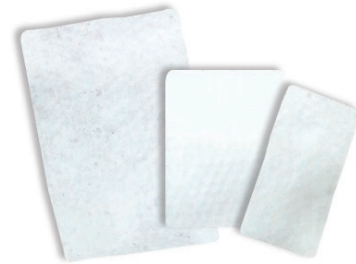
Rabbit calvaria model, 6 weeks

12 weeks

Collagen Membrane-P

Applications

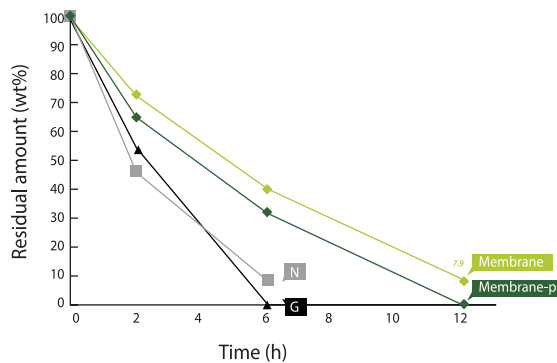
- Periodontal / infrabony defects
- Ridge augmentation
- Extraction sites (implant preparation / placement)
- Sinus lift
- GBR procedure



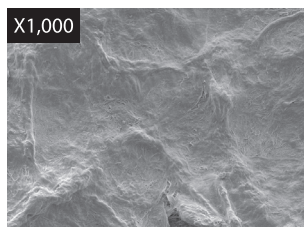
Characteristics

- Easy manipulation (soft type)
- Both sides usable
- Barrier function lasting for 4 months
- Highly pure type I collagen

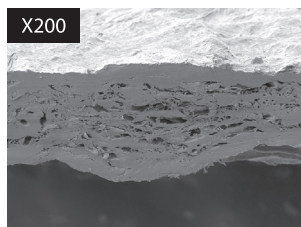
In Vitro Degradation



Microstructures

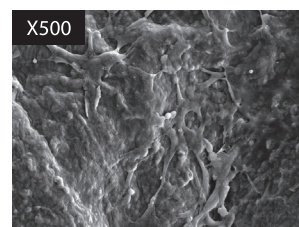


Surface

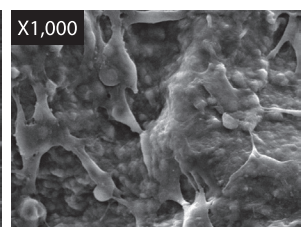


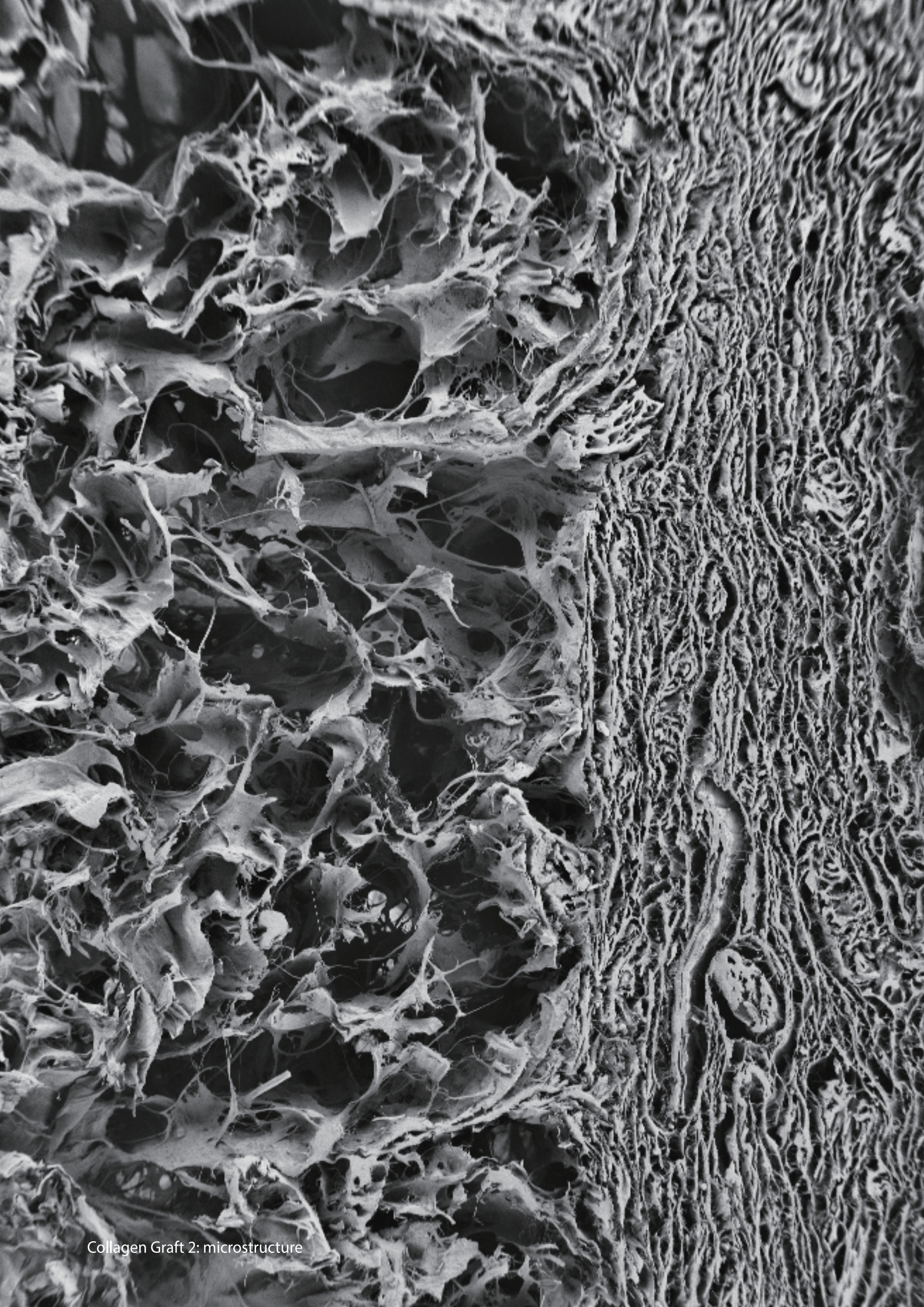
Cross section

Cell Adhesion



MC3T3/E1, Osteoblast cell





Collagen Graft 2: microstructure

Collagen Graft 2

Applications

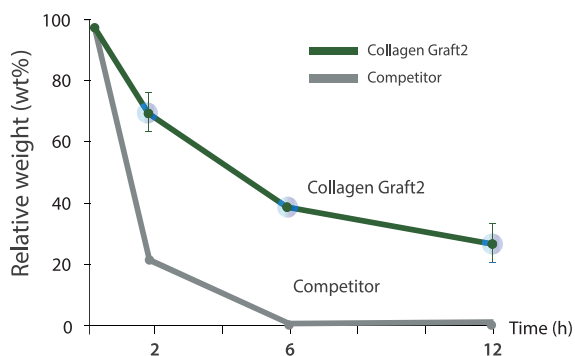
- Ridge Preservation (Open healing)
- Keratinized tissue augmentation
- Recovery of keratinized mucosa
- FGG alternative
- Root coverage

Characteristics

- Highly pure type I collagen
- Bilayer structure: Dense + porous layer
- Faster soft tissue healing by epithelization

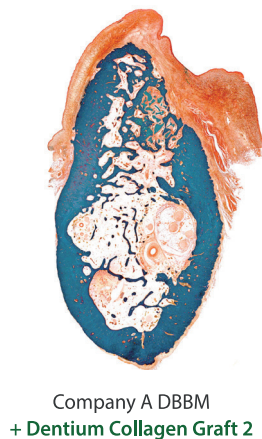


In Vitro Degradation

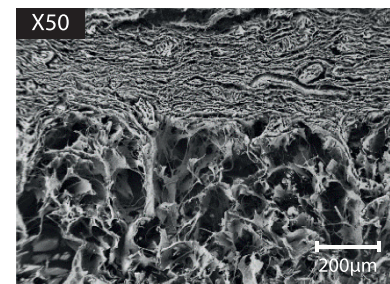


Animal Test

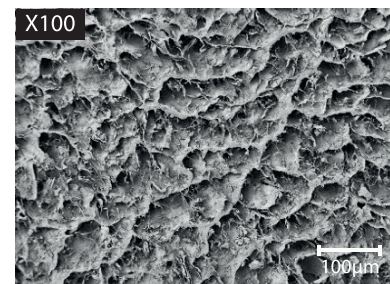
Dog mandible model, 16 weeks



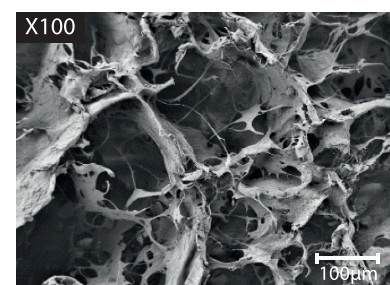
Microstructures



Cross section



Dense Layer

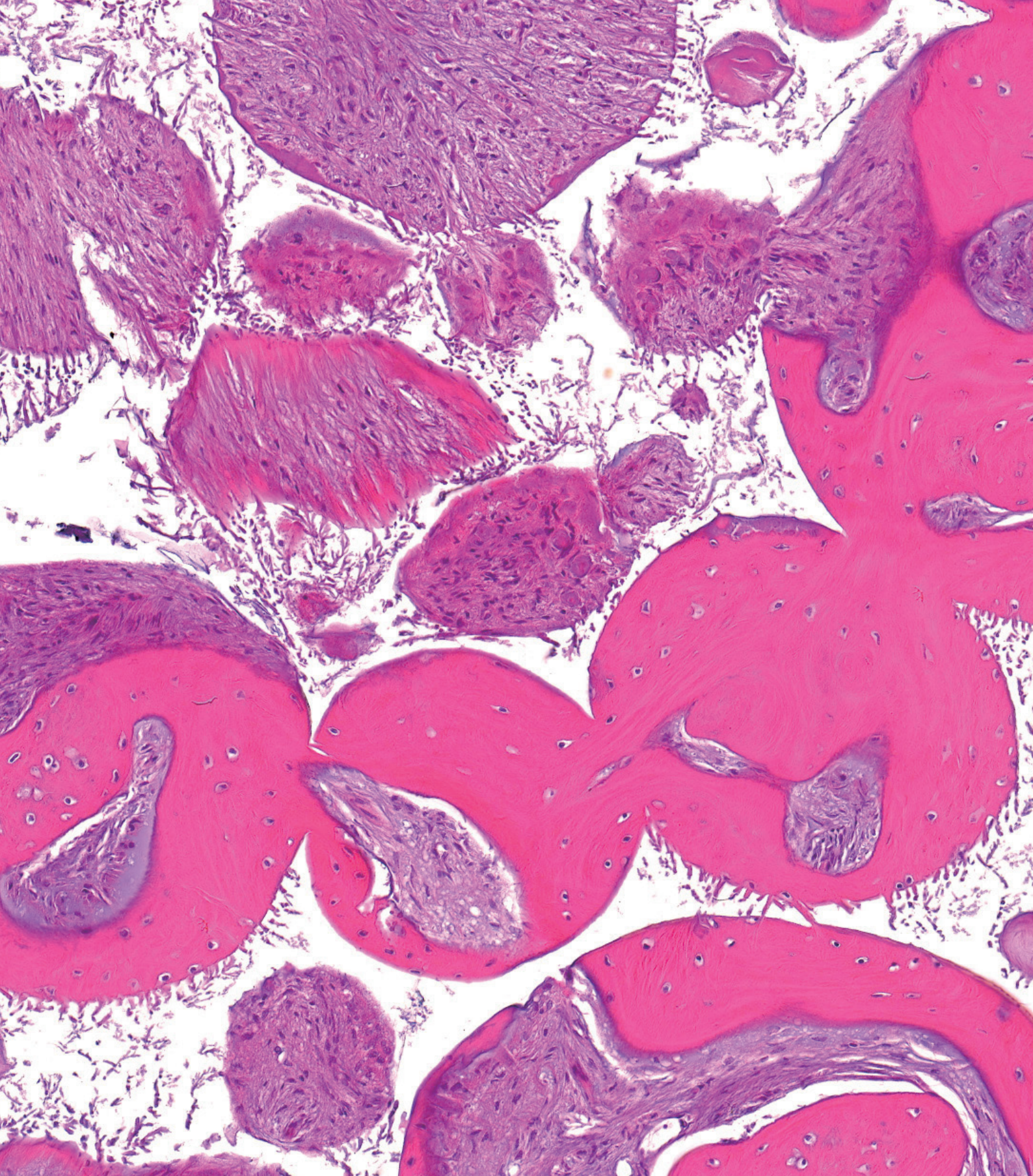


Porous Layer

Order Information

	Type	REF	Size (mm)	Thickness (mm)
Collagen Membrane 2	Square	CM1020S	10 x 20	0.3
		CM1520S	15 x 20	
		CM1530S	15 x 30	
		CM2030S	20 x 30	
		CM3040S	30 x 40	
Collagen Membrane	Square	GCM1020	10 x 20	0.3
		GCM1520	15 x 20	
		GCM2030	20 x 30	
Collagen Membrane-P	Square	GPCM1020	10 x 20	0.3
		GPCM1520	15 x 20	
		GPCM2030	20 x 30	
Collagen Graft 2	Square	PSD1010	10 x 10	3
		PSD1020	10 x 20	
		PSD1520	15 x 20	
		PSD2030	20 x 30	
	Round	PSD10C	Ø10	3
Collagen Graft 2 Thin	Square	PSD1010M	10 x 20	2.5
		PSD1020M	15 x 20	
		PSD1520M	20 x 30	
		PSD2030M		

Dentium



Specifications are subject to change without any notice.
Some products listed in this catalog are not available in the market due to pending approval.

Dentium *GENOSS*

CAT-B0401 (Rev.4, 2308)

MANUFACTURER

76, Changnyong-daero 256beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
T +82-31-888-5100 F +82-31-888-5105

HOME PAGE

www.dentium.co.kr / www.genoss.com