MedPark

COLLA

RESORBABLE
COLLAGEN MEMBRANE

CE
1434

Manufactured by MedPark

RESORBABLE COLLAGEN MEMBRANE

Aesorbable collagen membrane with Medpark's crosslinking technology

Biocompatibility

- Using type I bovine collagen through standardized refining process
- Biocompatibility improvement of crosslinking technology ensures safety without inflammatory reactions

Stable Decomposition Period

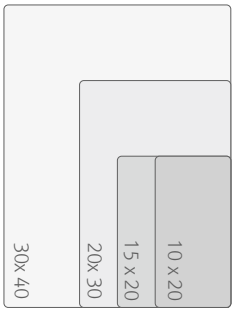
- Ensured biodegradation period through application of CE certified quality management standard
- Colla can stand in the body for at least 4 months

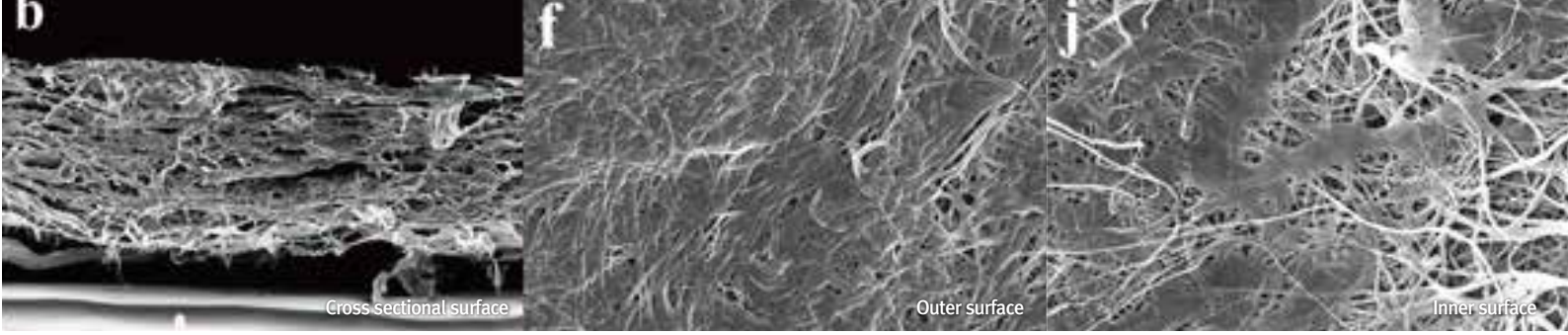
Space Maintenance

- Excellent space maintenance in bone defect
- Reliable bone regeneration effect with perfect prevention of soft tissue penetration

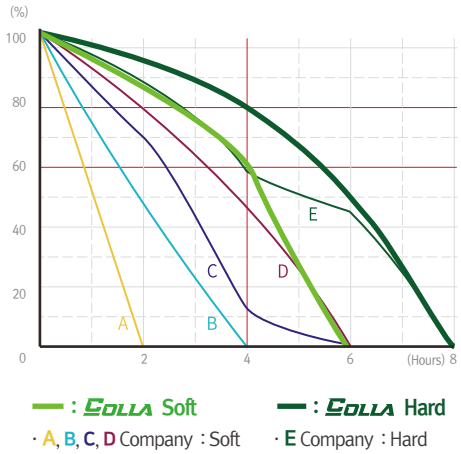
Sepcifications

Source	Type	Feature	Size
Bovine	Soft	· Excellent adhesion · Handling facilitated	10 X 20 mm
			15 X 20 mm
			20 X 30 mm
			30 X 40 mm
	Hard	· Multilayer Structure · Excellent Tension	10 X 20 mm
			15 X 20 mm
			20 X 30 mm
			30 X 40 mm





Excellent initial shape retention



Collagenase Degradation Test

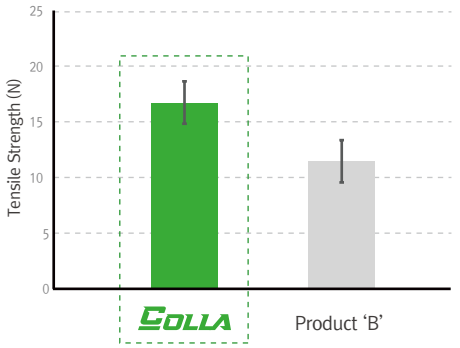
COLLA	Soft Type	Hard Type
Degradation time	6 hours	8 hours
Shape	Maintaining 60% of its shape up to 4 hours	Maintaining 80% of its shape up to 4 hours

Collagenase?

Enzymes that break down the peptide bonds in collagen

· Better initial shape maintenance than other membranes

In Vitro Test



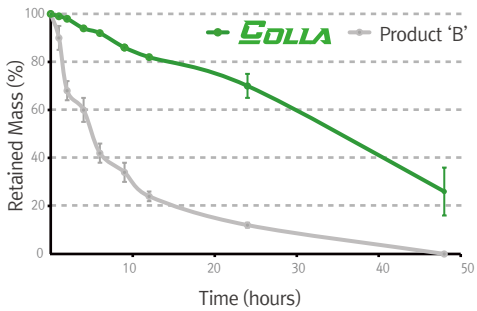
Tensile strength of membranes in wet state (unit:N) (n=5)

Mechanical test (Tensile strength)

Improving a manipulability and ensuring a stability for external stress

· Tensile strength (tearing resistance) in hydration is higher than other products

· Securing the initial osteoblast proliferation by its stability



Tensile strength of membranes in wet state (unit:N) (n=5)

Degradation test (Collagenase)

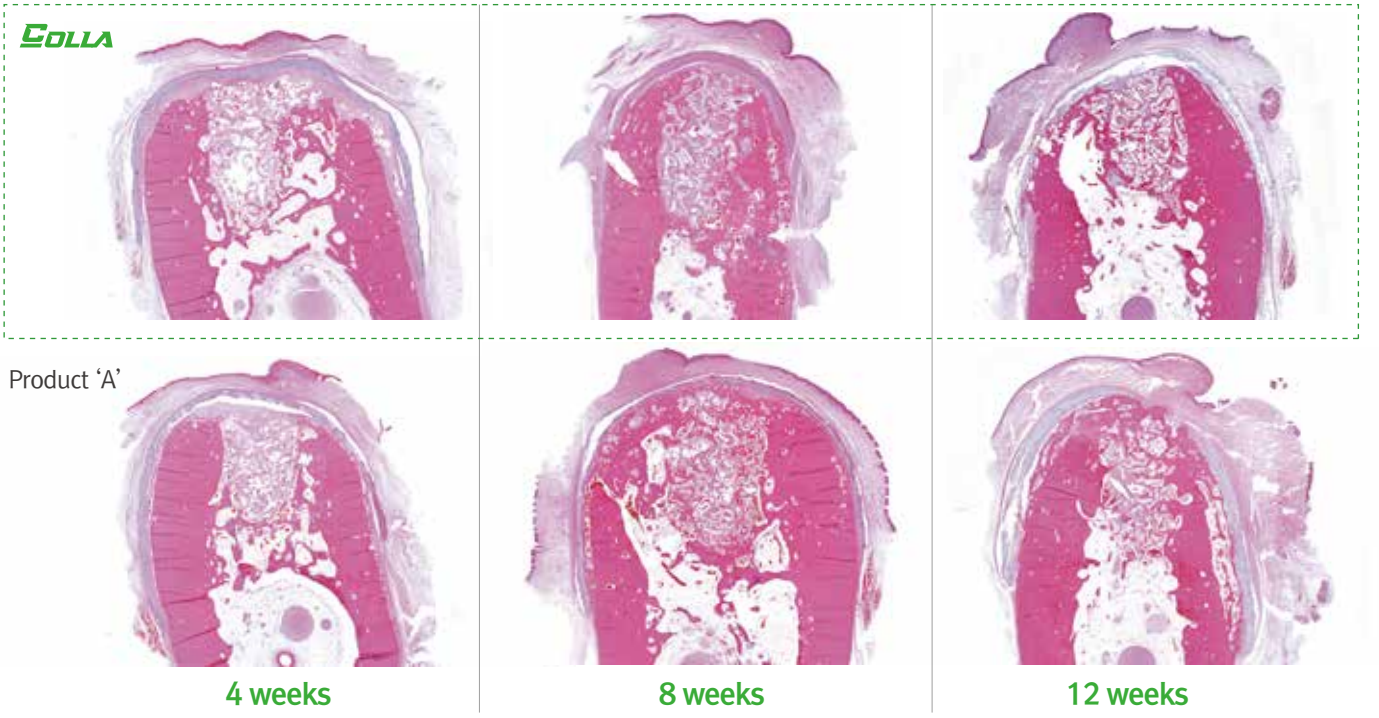
Improved resistance to decomposition as structural stability is achieved by enhanced interaction between collagen molecules

· High resistance to the enzyme action of macrophage

· Helping effective new bone formation by its shape maintenance and high resistance to enzyme decomposition

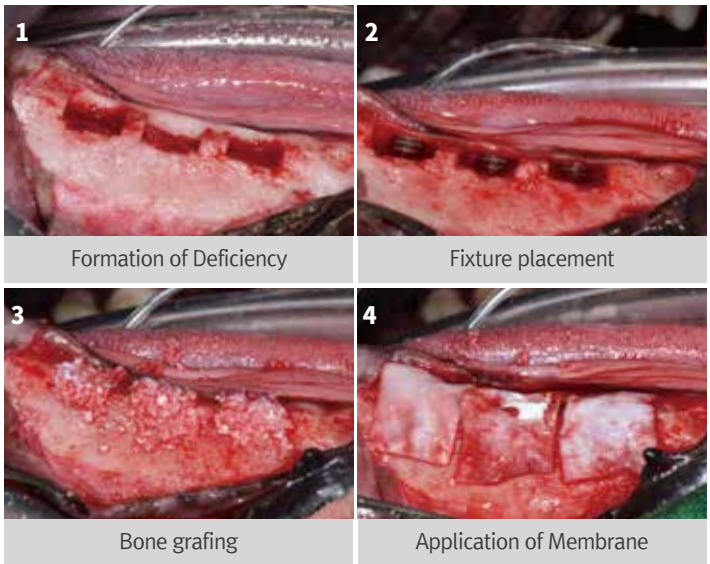
Pre-clinical case

Evaluation of histologic bone formation stability (H&E) : Large Animal (Beagle)



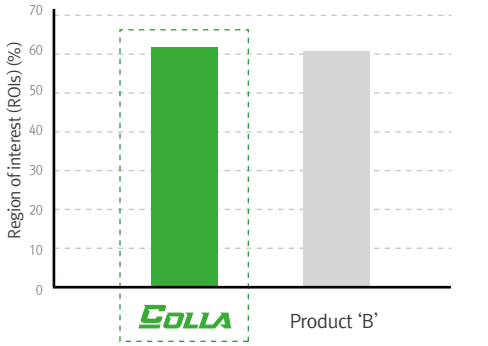
· **COLLA prevents loss of the bone graft materials,** and that the shape and thickness remain constant over time, thus **ensuring stable new bone formation**

New bone formation test (Micro CT) : Large Animal (Beagle)



Formation of Deficiency | Fixture placement

Bone grafing | Application of Membrane

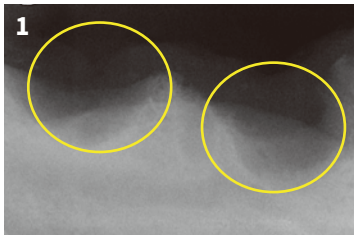


Bone volume analysis within regions of interest (ROIs)(%)

[Bone volume analysis result using Micro CT]

Clinical case

Case 1



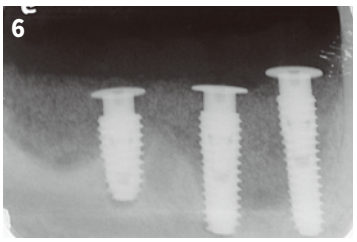
Preoperative X-ray

Flap incision

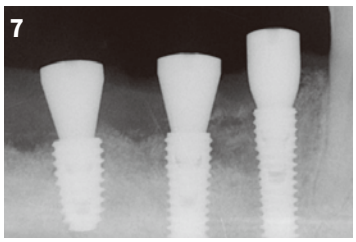
Implant installation

S1 Dental bone graft

Application of **COLLA**

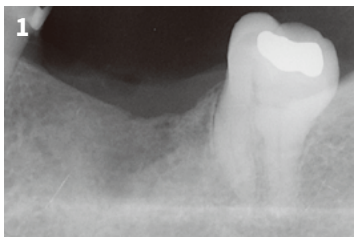


After the surgery



4 months after Implant placement,
X-ray After 2nd stage surgery

Case 2

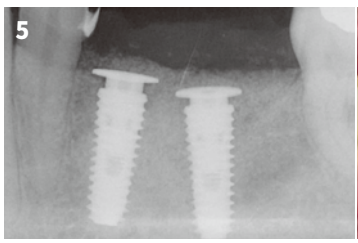


Preoperative X-ray

Incision of the affected part

Application of **BOSS**

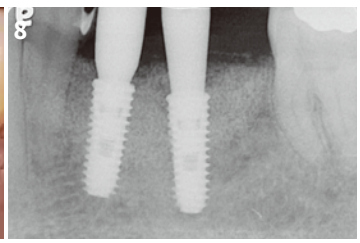
Application of **COLLA**



Postoperative X-ray

Healing period, after 3 months of surgery
(Detection of keratinized tissues)

2nd surgery after 3 months



Postoperative X-ray, after 2nd surgery

Indication

- Periodontal/Infra bony defects
- Ridge augmentation
- Extraction sites
- Guided bone regeneration (GBR) procedures
- Sinus lifts

MedPark

Regenerative Solution Provider

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