

MedPark

COLLA

RESORBABLE
COLLAGEN MEMBRANE

CE
1434

Manufactured by **MedPark**

RESORBABLE COLLAGEN MEMBRANE

Resorbable 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

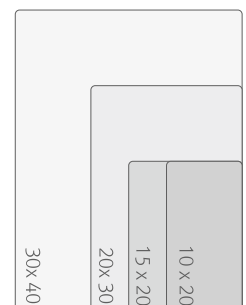
Space Maintenance

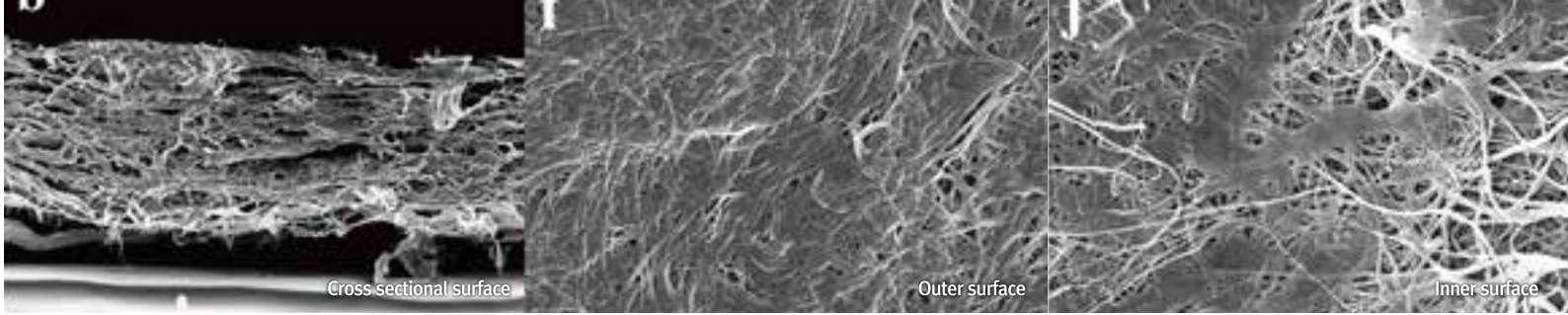


- Excellent space maintenance in bone defect
- Reliable bone regeneration effect with perfect prevention of soft tissue penetration

Specifications

Source	Type	Feature	Thickness	Size
Bovine	BS Type (Soft)	• Excellent adhesion • Handling facilitated	0.24 ± 10%	10 X 20 mm
				15 X 20 mm
				20 X 30 mm
				30 X 40 mm
	BH Type (Hard)	• Multilayer Structure • Excellent Tension	0.27 ± 10%	10 X 20 mm
				15 X 20 mm
				20 X 30 mm
				30 X 40 mm





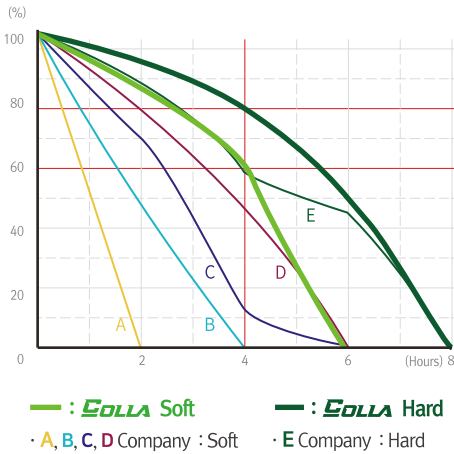
Cross sectional surface

Outer surface

Inner surface

Excellent initial shape retention

Collagenase Degradation Test



EOLLA	Soft Type	Hard Type	Collagenase? Enzymes that break down the peptide bonds in collagen
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	

• Better initial shape maintenance than other membranes

In Vitro Test

Mechanical test (Tensile strength)

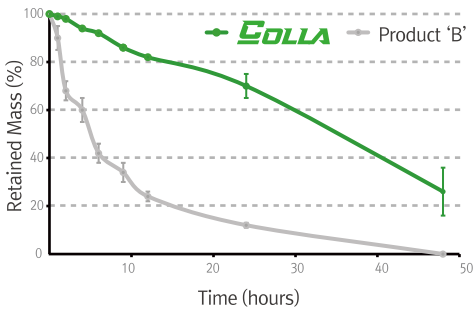


Tensile strength of membranes in wet state (unit:N) (n=5)

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

Degradation test (Collagenase)



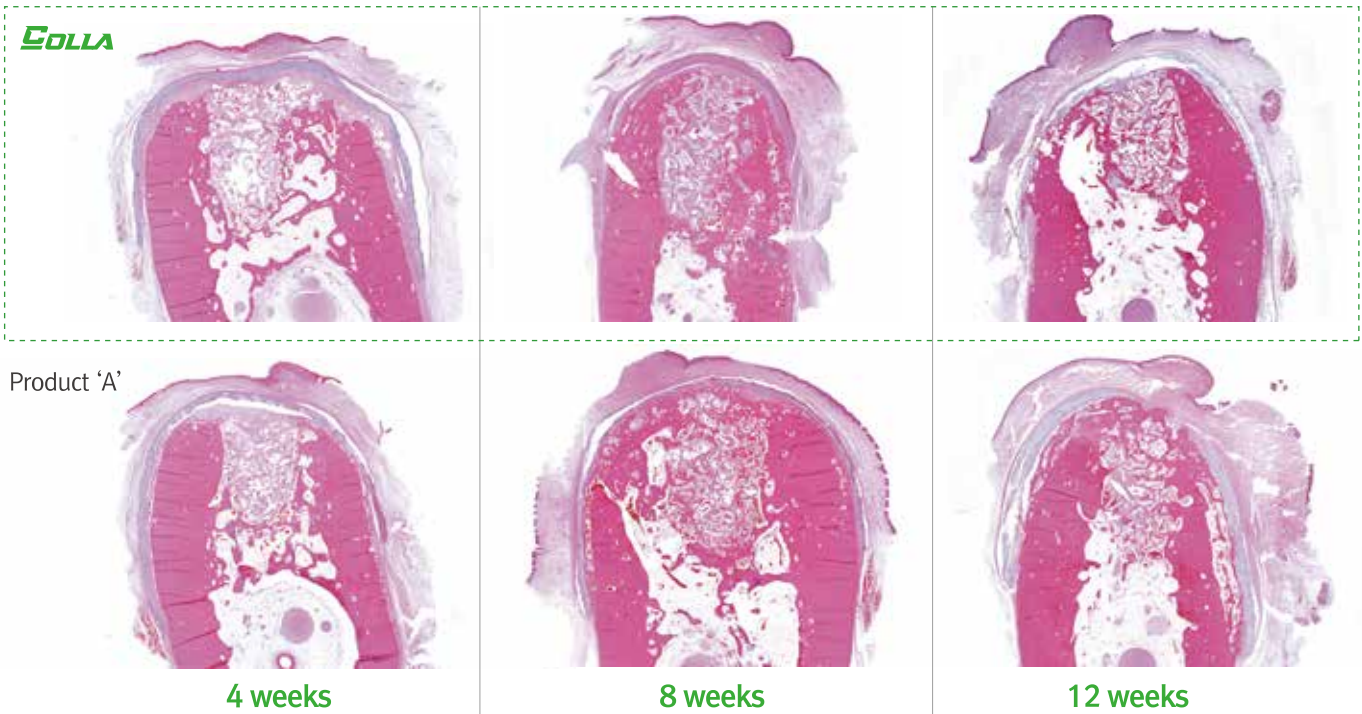
Tensile strength of membranes in wet state (unit:N) (n=5)

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

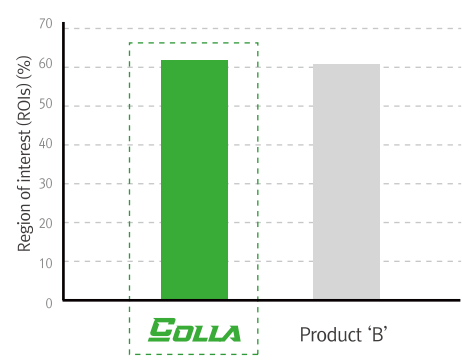
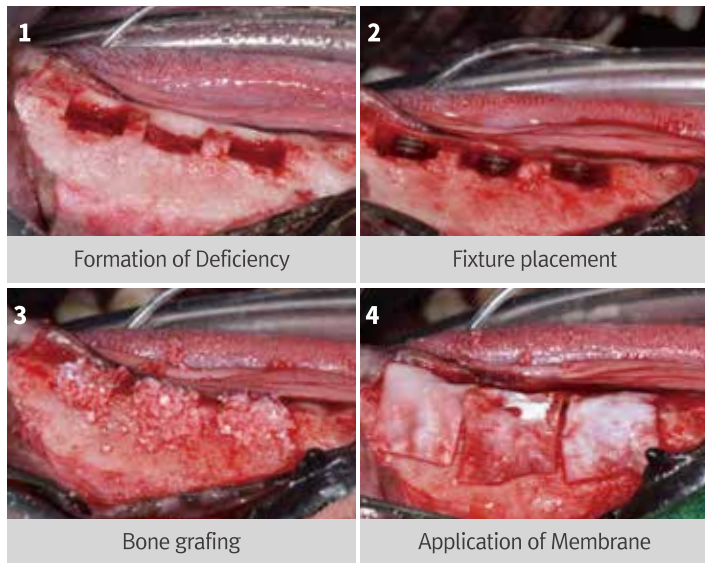
Pre-clinical case

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)

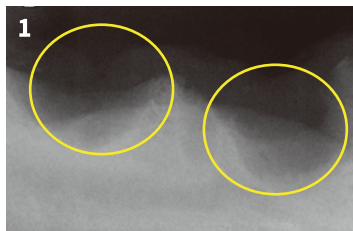


Bone volume analysis within regions of interest (ROIs)(%)

[Bone volume analysis result using Micro CT]

Clinical case

Case 1



1 Preoperative X-ray



2 Flap incision



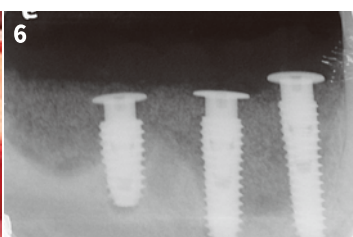
3 Implant installation



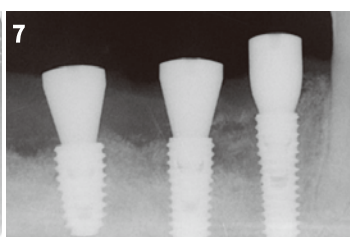
4 S1 Dental bone graft



5 Application of COLLA

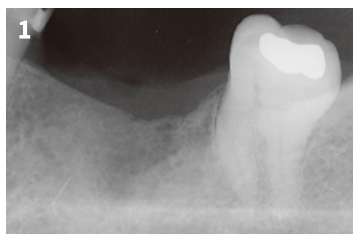


6 After the surgery



7 4 months after Implant placement, X-ray After 2nd stage surgery

Case 2



1 Preoperative X-ray



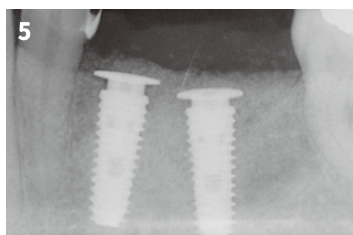
2 Incision of the affected part



3 Application of BOSS



4 Application of COLLA



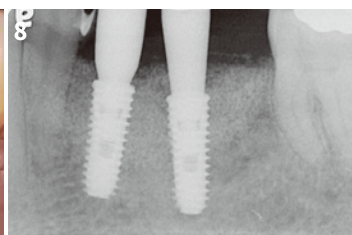
5 Postoperative X-ray



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



7 2nd surgery after 3 months



8 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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