

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

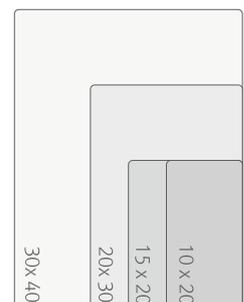
Space Maintenance

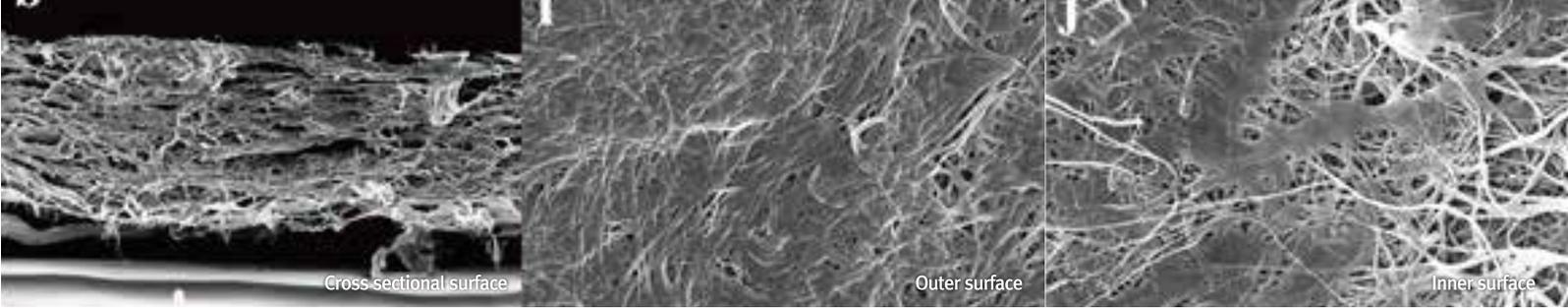


- Excellent space maintenance in bone defect
- Reliable bone regeneration effect with perfect prevention of soft tissue penetration

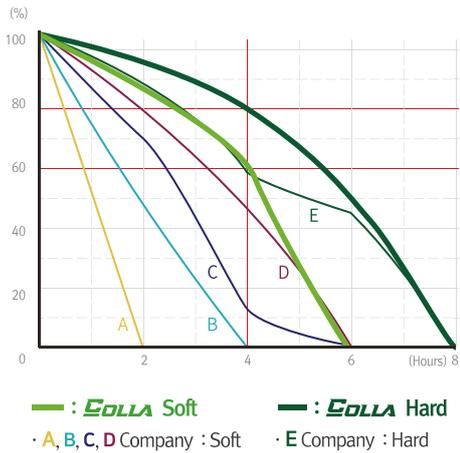
Specifications

Source	Type	Feature	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

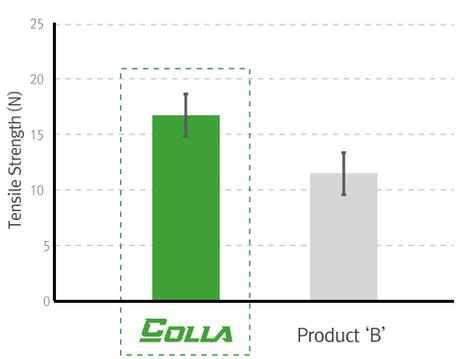


Collagenase Degradation Test

COLLA	Soft Type	Hard Type	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

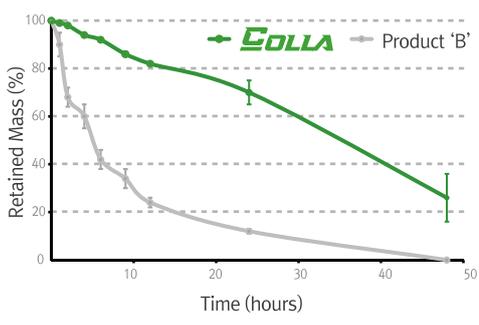


Tensile strength of membranes in wet state (unit:N) (n=5)

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)

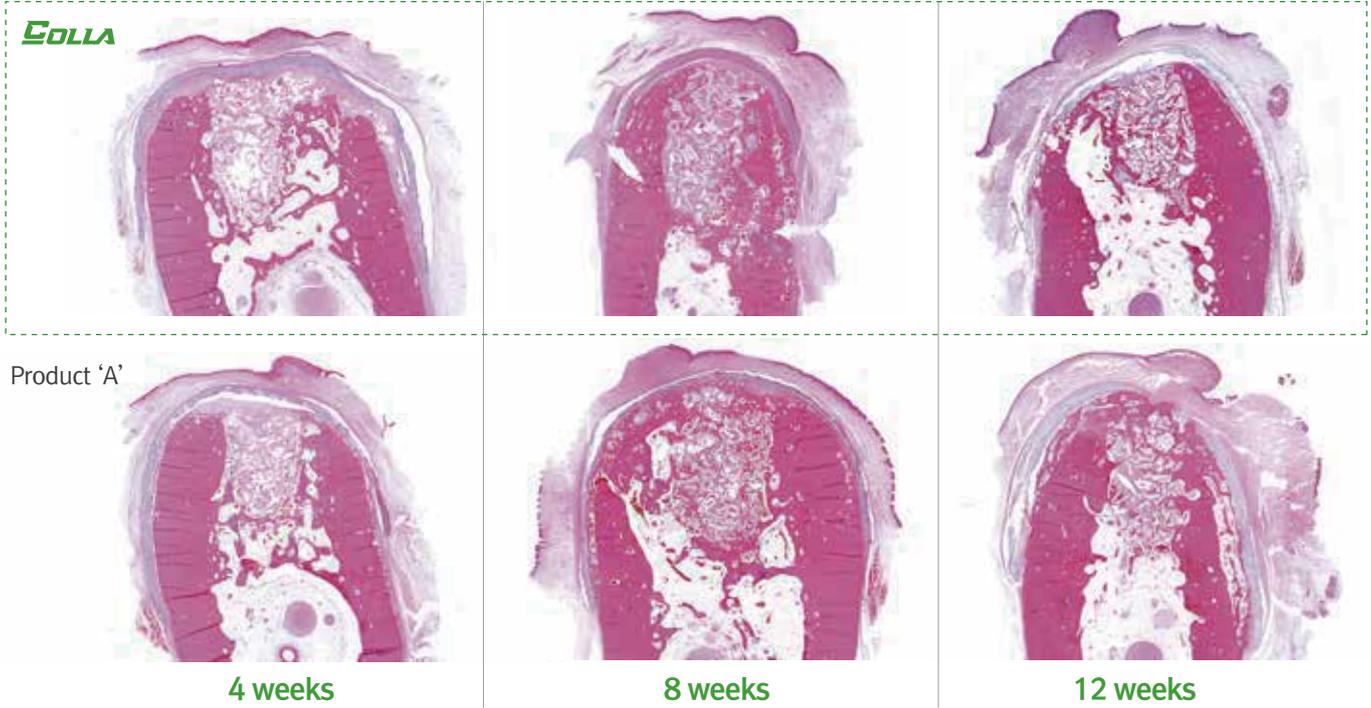
Degradation test (Collagenase)

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

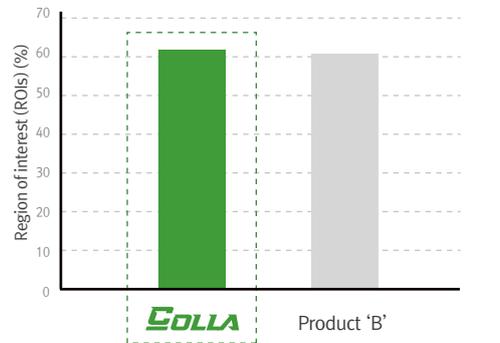
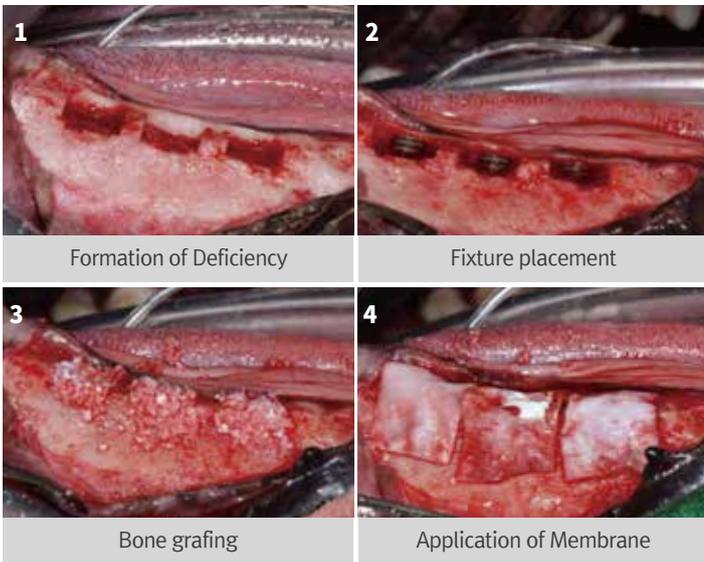
Pre-clinical case

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)

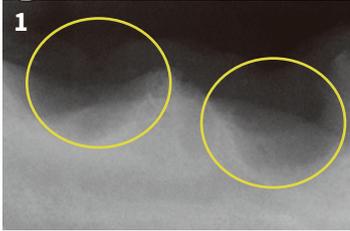


Bone volume analysis within regions of interest (ROIs)(%)

[Bone volume analysis result using Micro CT]

Clinical case

Case 1



1 Preoperative X-ray



2 Flap incision



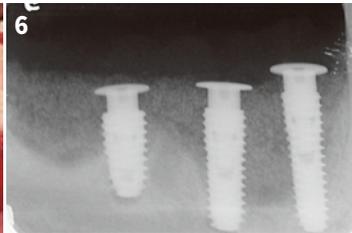
3 Implant installation



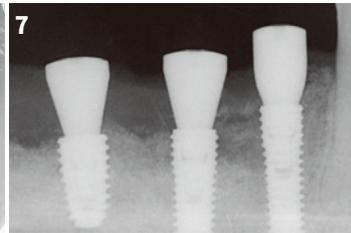
4 S1 Dental bone graft



5 Application of COLLA

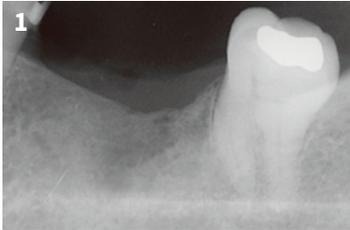


6 After the surgery



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

Case 2



1 Preoperative X-ray



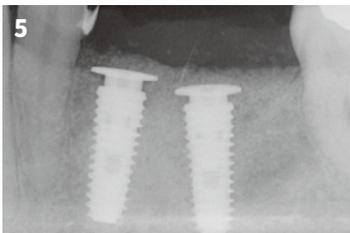
2 Incision of the affected part



3 Application of BOSS



4 Application of COLLA



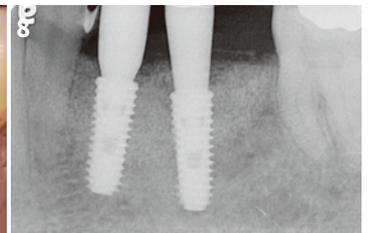
5 Postoperative X-ray



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



biz@medpark.net | www.medpark.net