ACRO Biomedical Co., Ltd.

The Pioneer of Tissue Engineering

the information is only provided to dental professionals for educational training purpose

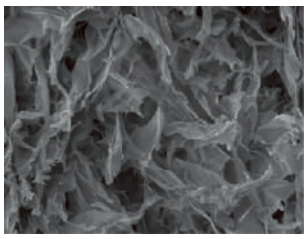
ABCcolla®

Trustworthy brand

ABCcolla®dental products are manufactured by using proprietary supercritical CO_2 decellularization technology to remove cells, fat, non-collagen protein, and other substances from porcine tissue, retaining native dermal collagen scaffold intact. The native collagen scaffold assist in reconstructing human tissues.

The gene sequence of porcine collagen is extremely similar to humans,however it is not similar in cow, sheep, horse and fish. Furthermore, the BSE threat is eliminated.

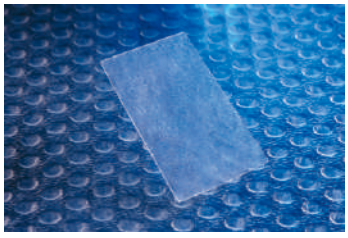
ABCcolla®Collagen Matrix

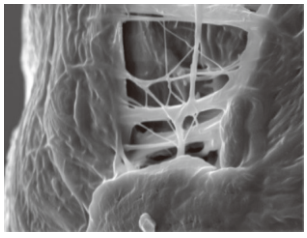


MOHW-MD-NO.
TFDA Certificate
NO.005730

- Excellent biocompatibility.
- Absorb and reconstruct in 7-14 days
- Intact collagen scaffold
- For ulcers and trauma wound
- For surgical wounds
- For soft tissue donor and recipient sites
- For post laser wounds
- Natural material manufactured by green technology
- No additives

ABCcolla®Collagen Membrane

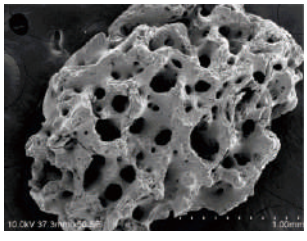




MOHW-MD-NO.
TFDA Certificate
NO.006176

- Very easy to handle and suture.
- Great barrier between hard and soft tissue.
- Excellent absorbability hence eliminates second-stage surgery for membrane removal.
- Intact collagen scaffold
- Natural material manufactured by green technology
- No additives

ABCcolla®Dental Bone Graft

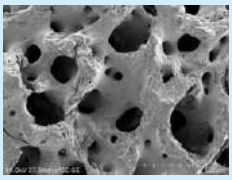


MOHW-MD-NO.
TFDA Certificate
NO.006014

- Use hygienic tissue source in accordance with ISO 22442
- Natural interconnected micropore structure
- Ca/P ratio similar to the composition of human bone
- 3D microenvironment suitable for cell growth in bone
- Osteogenic-bioresorbable balance for optimal osteointegration
- Biocompatibility tests comply with ISO 10993

ABCcolla® Dental Bone Graft

ABCcolla® Dental Bone Graft (native structure)

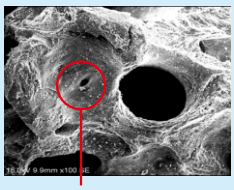


various pore sizes suitable for cell growth

osteointegration is completed

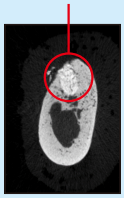
24 weeks after implantation

Other commercial dental bone graft (high-temperature sintering)



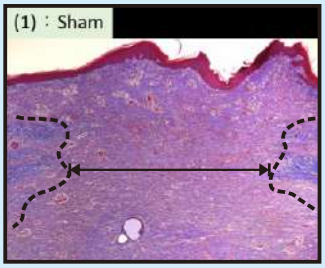
most small pores were fused due to the high-temperature sintering process

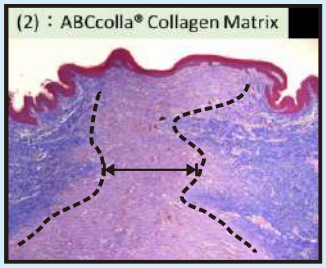
incomplete resorption



24 weeks after implantation

ABCcolla® Collagen Matrix

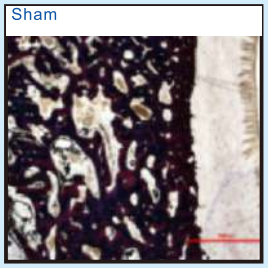


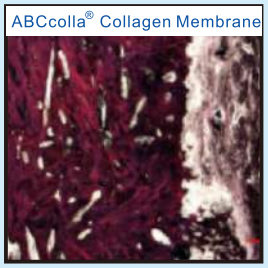


The distance of granulation tissue was more narrow in ABCcolla® group(2) than Sham group(1)($p<0.05$)

ABCcolla® Collagen Matrix induces more collagen deposition, and improves wound healing process in the injury site

ABCcolla® Collagen Membrane





ABCcolla® Collagen Membrane acts as a barrier between soft and hard tissue. It provides space for efficient osteogenesis in alveolar bone.

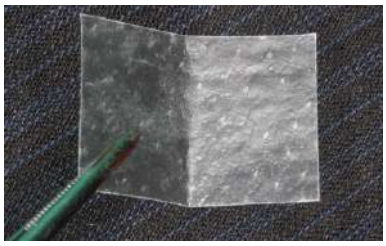
ACRO Biomedical Co., Ltd.

Clinical case

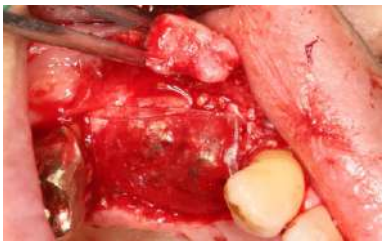
The information is only provided to dental professionals for educational training purpose

GBR with ABCcolla® Collagen Membrane

The case was supplied by Dr. Nan-Yu Liu



ABCcolla® Collagen Membrane



ABCcolla® Collagen Membrane acts as a barrier between soft and hard tissue

Tension release

Suture the wound

2 weeks of follow-up

4 weeks of follow-up

12 weeks of follow-up

Complete guided bone regeneration

ACRO Biomedical Co., Ltd.

Clinical case

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GBR by using ABCcolla® Dental Bone Graft

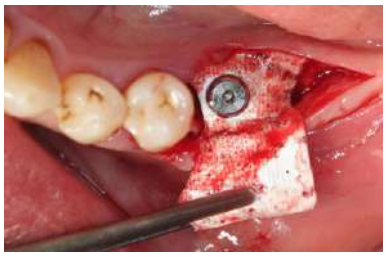
The case was supplied by Dr. Nan-Yu Liu

Soft and hard tissue deficiency

Incision was made

Attach ABCcolla® Collagen Matrix to healing abutment

Tension release on the lingual side



Tension release on the buccal side

Fill up the defect site with ABCcolla® Dental Bone Graft

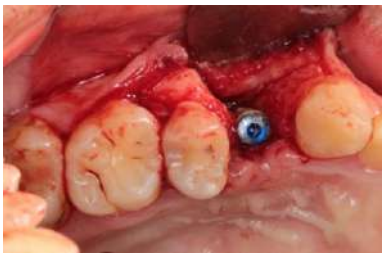
Suture the wound

Four months follow-up

Excellent wound healing

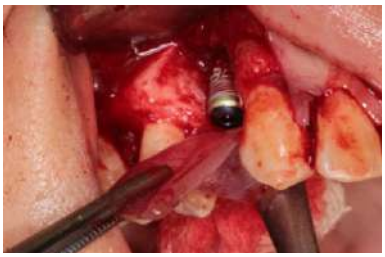
ABCcolla® Dental Bone Graft combined with ABCcolla® Collagen Membrane in GBR

The case was supplied by Dr. Nan-Yu Liu



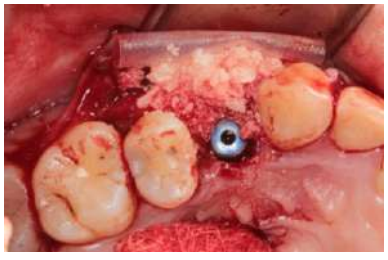
Hard tissue deficiency

Surgery



Insert ABCcolla® Collagen Membrane

Fill up the defect site with ABCcolla® Dental Bone Graft



ABCcolla® Collagen Membrane acts as a barrier

Suture the wound

ACRO Biomedical Co., Ltd.

Clinical case

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ABCcolla® Collagen Matrix used in the healing of surgical wound

The case was supplied by Dr. Nan-Yu Liu

Day0

Day2

Day7

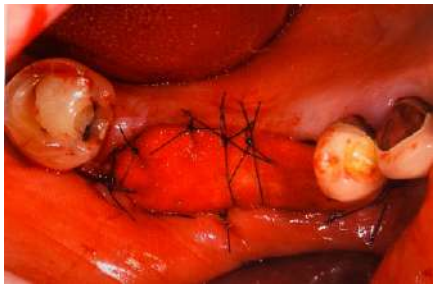
Day14

Day30

ABCcolla® Collagen Matrix used in soft tissue augmentation

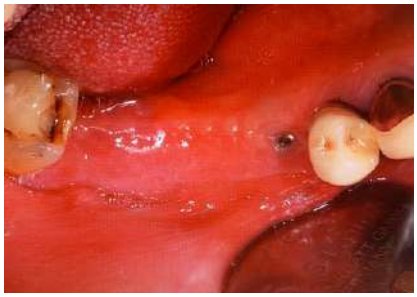
The case was supplied by Dr. Lin yi-hsueh (Xin feng dental clinic)

Lack of soft tissue



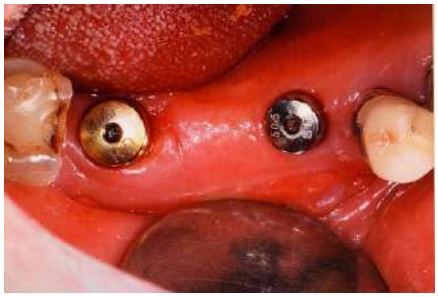
Suture using the ABCcolla® Collagen Matrix

The Collagen Matrix was absorbed and accelerates wound healing



Excellent wound healing

The dental implant was excellently integrated to alveolar bone



Install abutments

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FDA 510(k)

Presafe

G.M.P. MEDICAL DEVICE