DIO IMPLANT

MedPark

S1

NEW BONE
NEW LIFE

DENTAL

NATURAL BONE SUBSTITUTE

CE

Concept of customized Bonegraft material

NEW BONE
NEW LIFE

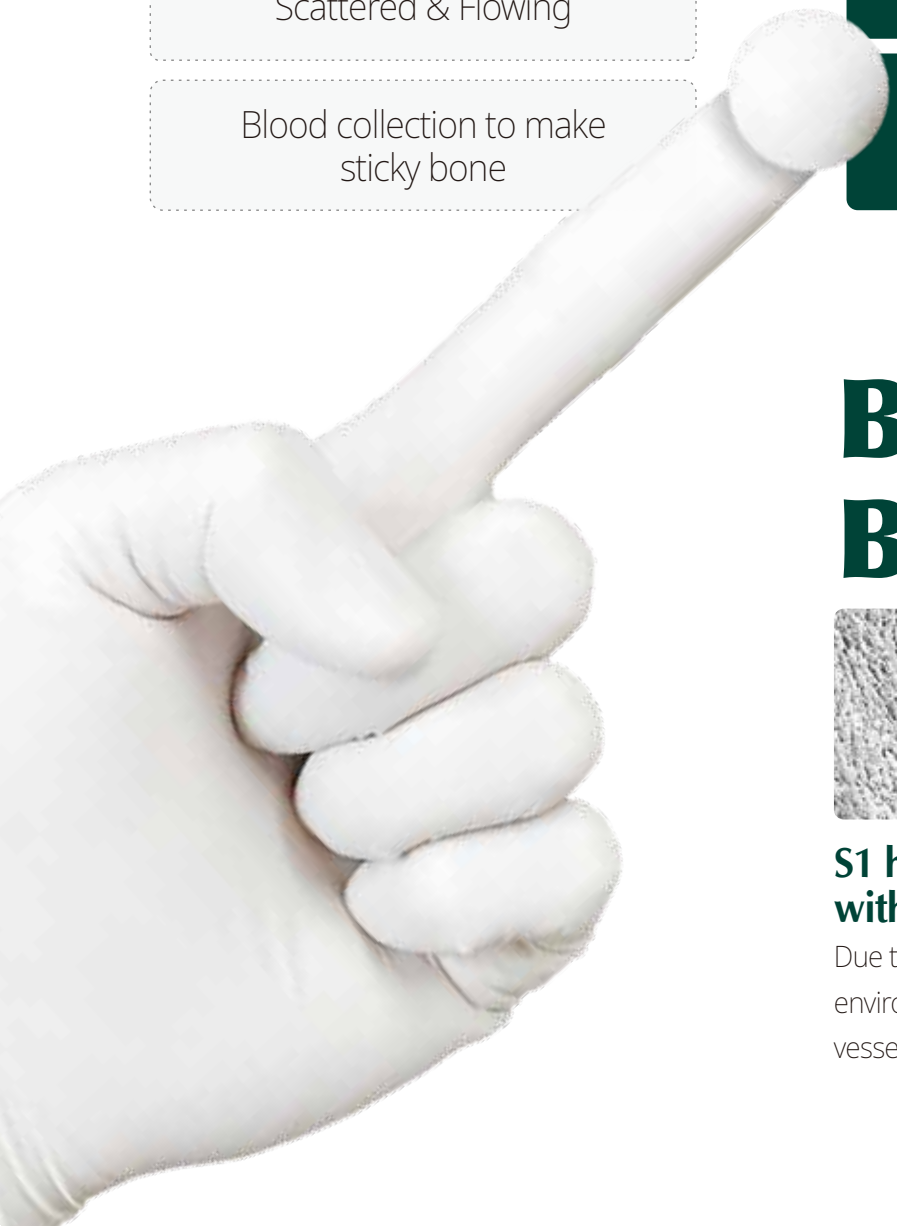
Sticky Bone without Blood Collection!

Bovine Bone Mineral

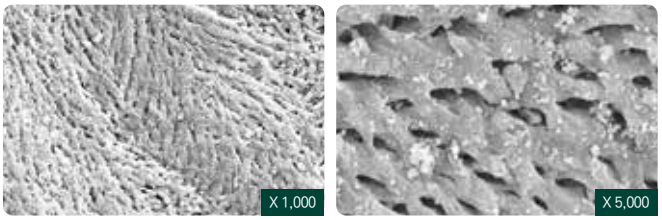
- Unable to mold
  Lack of retentivity
- Scattered & Flowing
- Blood collection to make sticky bone

S1

- Moldable & Customizing
- Customized build up
- Sticky bone made easily with saline or blood



BOVINE BONEGRAFT



S1 has similar structural characteristics with human bones

Due to its high porosity, S1 provides the most optimal environment for promoting osteoblast adhesion, blood vessel formation, and bone regeneration.

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Keywords



S1 (Bovine Bone)

VS



Bovine Bone Mineral

1 Excellent adhesion and fixation

1 Rigid Space Maintenance

1 Excellent osteoconduction

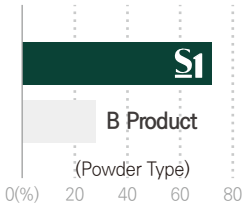


S1 (Bovine Bone)

1 Easy to manipulate

1 Various indications

1 High porosity



Porosimeter Test

- Percentage of porosity is more than 70%
- High porosity allows rapid penetration of growth factors

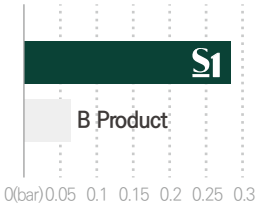
1 Improved Hydrophilicity



Hydrophilicity Test

- Porous structure makes blood circulation easily

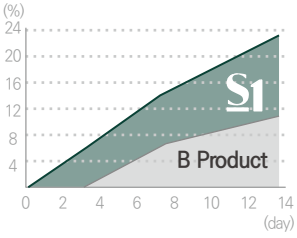
1 Excellent shape maintenance



Pressure Test

- Perfect shape maintenance against high pressure from outside compared to other bone

1 Bone formation rate



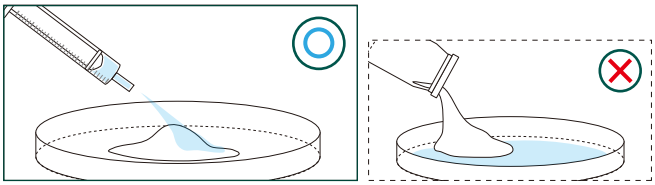
Mass Increase Test

- High attachment rate of ions to S1
- **21% increase in mass** after 14days due to high adhesive rate of ions

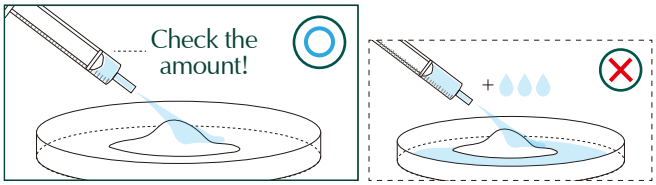
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Quick Guide

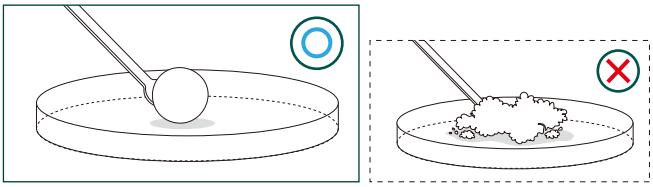
- Please apply the liquid as indicated
- Each package is for one-time use only
- Do not mix with other bonegraft
- Mix with solutions well enough



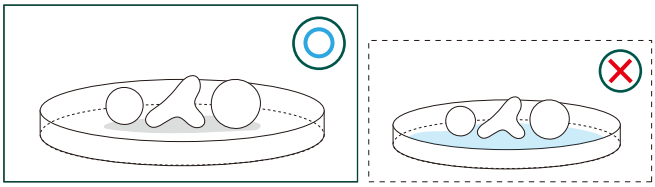
1 Place S1 in the tray and hydrate the materials with saline



1 Please use the recommended amount of saline only.



1 Knead the dough enough for at least 30 seconds by using hands or tools to form a lumpy shape before using S1.



1 Do not soak in saline after shaping for a surgey

Recommended amount of saline

TYPE	PARTICLE SIZE (mm)	WEIGHT (g)	SOLUTION AMOUNT (cc)
Powder	0.2~1.0	0.25	**0.35**
		0.5	**0.7**
		1.0	**1.4**

TYPE	PARTICLE SIZE (mm)	WEIGHT (g)	SOLUTION AMOUNT (cc)
Chip	1.0~2.0	0.25	**0.45**
		0.5	**0.9**
		1.0	**1.8**
		2.0	**3.6**

Innovative technology

Check it out for yourself !

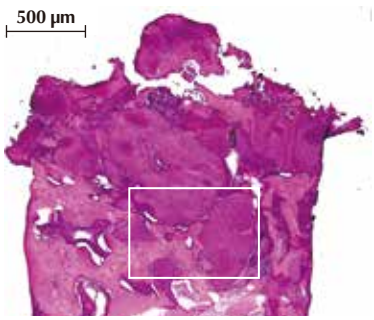
Watch the clinical uses on our Youtube

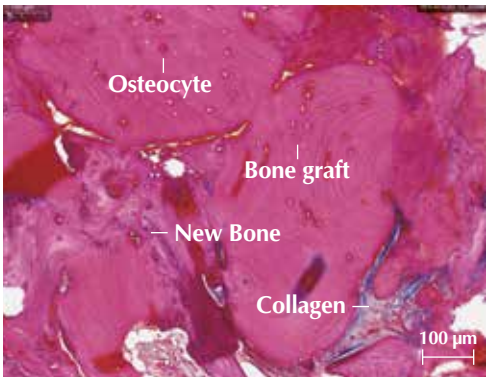
Biopsy

※ Hematoxylin & Eosin Stain

Case 1 | #14, Ridge augmentation

Patient Info : 65 years-old, female



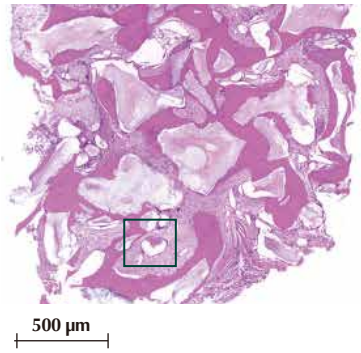


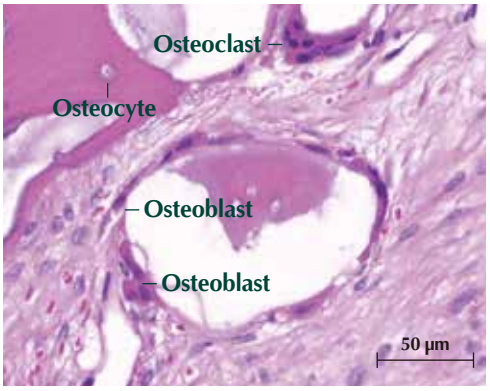
Clinical Opinion

- Excellent bone formation around bone graft material
- The graft materials appeared surrouded by newly formed bone
- No sign of inflammation or immune rejections

Case 2 | #26, Sinus graft

Patient Info : 73 years-old, female





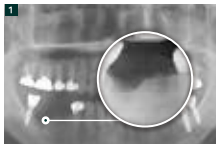
Clinical Opinion

- Excellent osteoconduction as it shows osteoclasts and new bone formation
- No evidence of inflammation or immune rejection

Clinical cases

Case 1

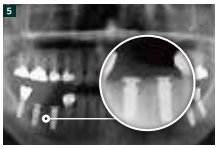
Patient Info : 59 years-old, female, Ridge augmentation


Before surgery


Placing Fixture


Grafting S1

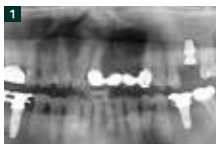

Suture


After grafting S1


Final prosthesis

Case 2

Patient Info : 66 years-old, Male, Ridge augmentation

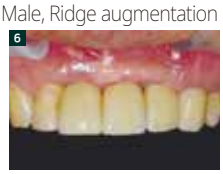

Before surgery


Dehiscence defection and widespread bone defects


Grafting S1


4 months after grafting S1


Postoperative x-ray, after 4 month


Final prosthesis

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S1

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www.dioimplant.com

k trend, s.r.o.
Námestí 14. října 1307/2
150 00 Praha 5 – Smíchov
info@ktrend.cz - +420 773 678 878

DIO Implant
YouTube Channel