

MedPark

S1

**NEW BONE  
NEW LIFE**

**DENTAL**  
NATURAL BONE SUBSTITUTE

**CE**  
**1434**

# Concept of customized Bonegraft material



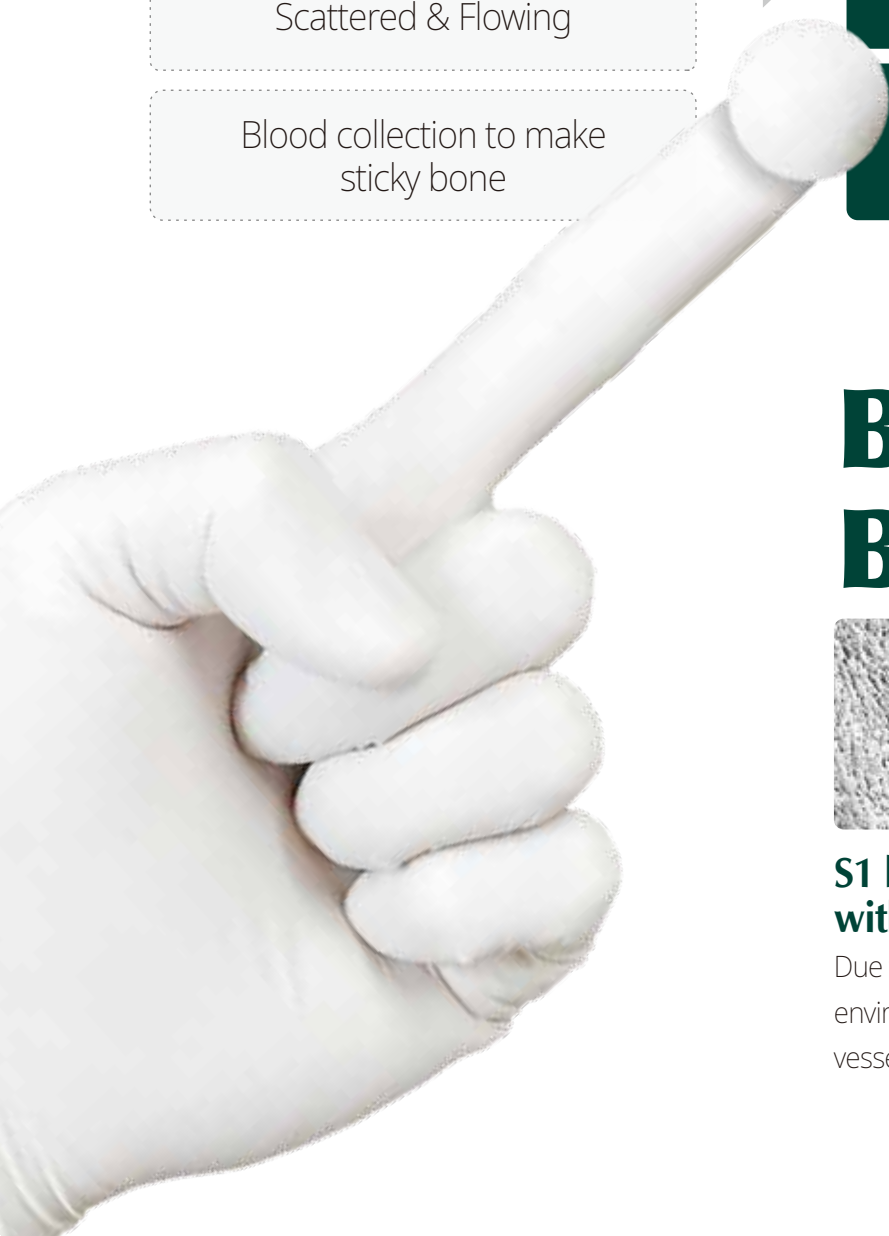
## Sticky Bone without Blood Collection!

### Bovine Bone Mineral

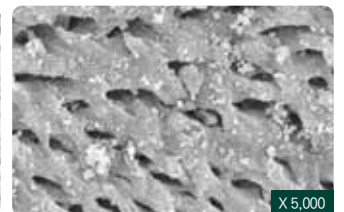
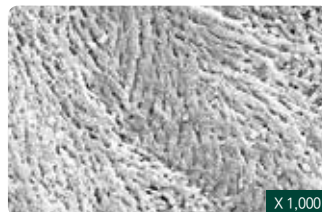
- Unable to mold  
Lack of retentivity
- Scattered & Flowing
- Blood collection to make sticky bone



- 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.

# NEW BONE NEW LIFE

## Keywords



S1 (Bovine Bone)



Bovine Bone Mineral

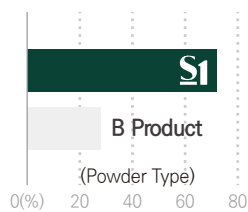
- 1 Excellent adhesion and fixation
- 1 Rigid Space Maintenance
- 1 Excellent osteoconduction



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

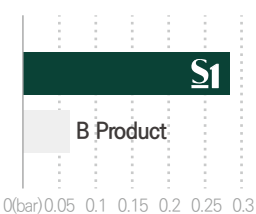
### 1 Improved Hydrophilicity



#### Hydrophilicity Test

- Porous structure makes blood circulation easily

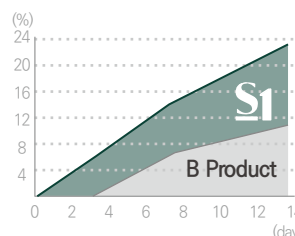
### 1 Excellent shape maintenance



#### 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

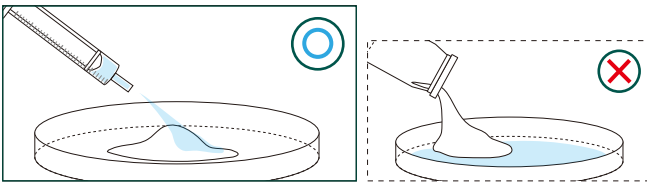
## Quick Guide

✓ Please apply the liquid as indicated

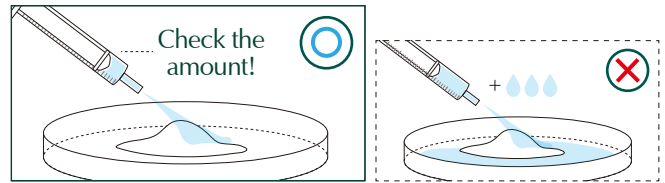
✓ Each package is for one-time use only

✓ Do not mix with other bonegraft

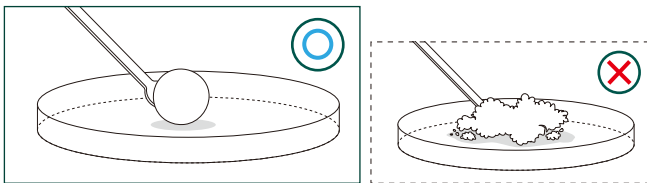
✓ Mix with solutions well enough



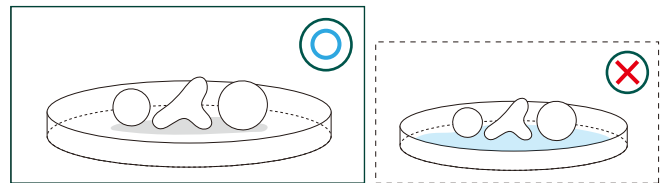
1 Place S1 in the tray and hydrate the materials with saline



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 surgery

## Recommended Amount of Saline

Type	Weight	Solution Amount
<b>0.2 ~ 1.0 mm</b> (Powder Type)	0.15 g	▲ 0.15 ml
	0.25 g	▲ 0.3 ml
	0.5 g	▲ 0.6 ml
	1.0 g	▲ 1.2 ml
	2.0 g	▲ 2.4 ml

Type	Weight	Solution Amount
<b>1.0 ~ 2.0 mm</b> (Chip Type)	0.25 g	▲ 0.4 ml
	0.5 g	▲ 0.8 ml
	1.0 g	▲ 1.6 ml
	2.0 g	▲ 3.2 ml

# Innovative technology

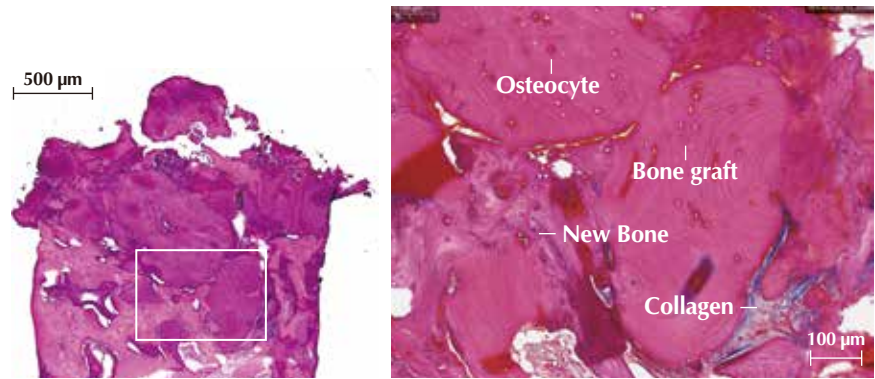
## Check it out for yourself !



Watch the clinical uses on our Youtube

### Biopsy ※ Hematoxylin & Eosin Stain

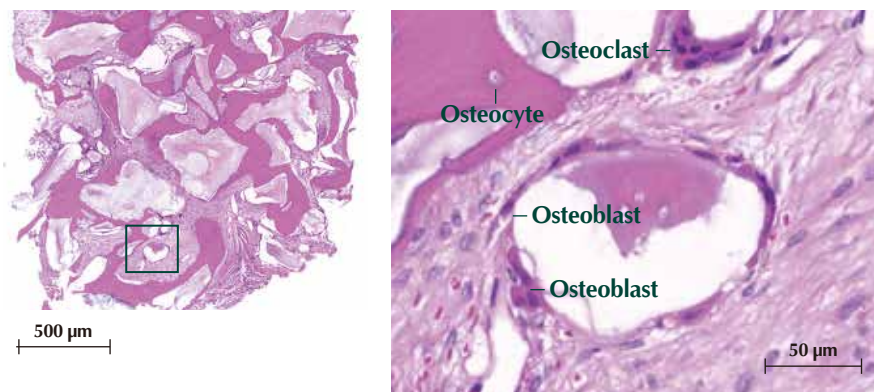
**Case 1 | #14, Ridge augmentation** Patient Info : 65 years-old, female



#### Clinical Opinion

- Excellent bone formation around bone graft material
- The graft materials appeared surrounded 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



**Case 2** Patient Info : 66 years-old, Male, Ridge augmentation



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