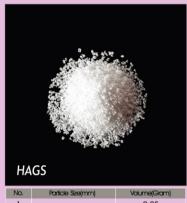


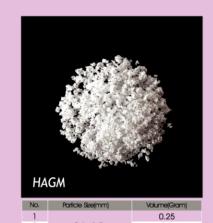


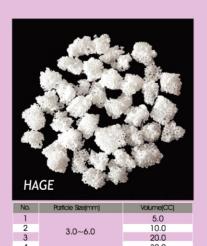
Bongros[®]HA[®] BINEUR Indication

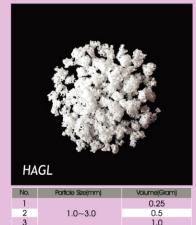
- Maxillary sinus elevation for implanting
- After implanting near exposed implant due to short of bone
- Veneer graft to expand width of alveolar
- Bone void part after extraction of tooth
- Prevent from alveolar contraction (alveolar ridge preservation) until implanting
- To fill the space (dead space) after auto bone graft
- Bone void part after removing of tumor and cystoma
- Bone void part after expanding length of bone
- Bone void part fraction of maxillary bone and alveolar



HAGS		
No.	Particle Size(mm)	Volume(Gram)
1	0.3~0.6	0.25
2		0.5
3		1.0







DAEWOONG Daewoong Pharmaceutical Co., Ltd.

163-8 Samsung-dong, Kangnam-gu, Seoul, Republic of Korea, 135-050 Telephone: +82-2-550-8579 Fax: +82-2-550-8616



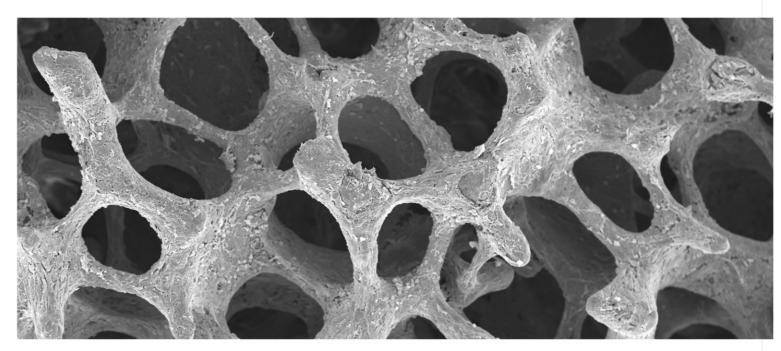
223-23 Sangdaewon-dong, Jungwon-gu, Seongnam, Gyeonggi-do, Republic of Korea, 462-120 Telephone: +82-31-746-5208 Fax: +82-31-749-5208











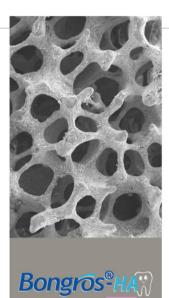
Identical pore structure to Human Cancellous Bone 3 Dimensional interconnected pore structure Optimized osteoconduction





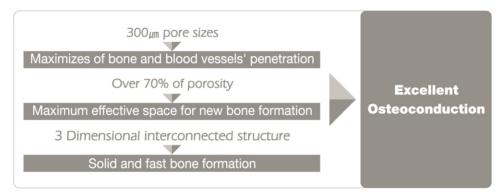




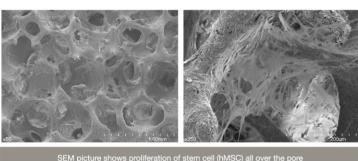


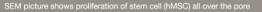
Bongros®HA® BUREIR

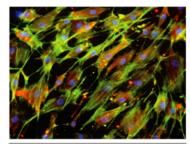
Bongros HAN BUNEFIED is identical to human bone's mineral in terms of physical and chemical [CAP (Carbon-apatite, Ca, (PO₄)₆CO₃)]. It is the first Korean made synthetic bone. It's used for regeneration and replacement of defected bone. Bongros® -HA slowly and chemically unite to bone tissue and provides effective space in order to make new bone's ingrowth and maintain space till new bone tissue ingrowth is completed.



Biocompatibility Internal Report (INMSC Cell culture test)







Advantages

1. Excellent bone formation

Bongros®-HA is a material for bone regeneration and replacement. It is formed with Hydroxyapatite ceramic which is identical to human bone's mineral in terms of physical and chemical. It's used for regeneration and replacement of defected bone. Bongros®-HA slowly and chemically unite to bone tissue of its own around and make new bone's ingrowth.

Bongros®-HA has an optimal porous structure (patented and porosity is 70-80%) and interconnected type of pore size (300 µm) for bone growth.

2. Excellent Safety

We are Making according to ASTM F1185 (International Standard) and burn bone mineral at over 1,200°C and finish with gamma irradiation. Therefore synthetic bone is 100% safe from immune and inflammation reaction (hepatitis, tuberculosis, AIDS, SARS etc) unlikely to allograft bone.

Besides we have passed 13 different tests done by Clinical Research Institute Seoul National University Hospital where is appointed as GLP appointing



3. Maintains effective space

Bongros®-HA provides effective space in order to make new bone's ingrowth and maintain space till new bone tissue ingrowth is completed. Therefore Bongros® -HA differs from Allobone and xeno bone.

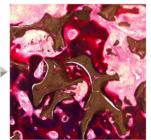
4. Easy to use

- It can be used immediately. Room temperature storage.
- No report all the data unlikely to Allobone.
- Provides mass production and stable in quality. (0.25g, 0.5g, 1.0g)









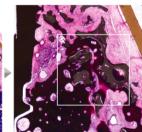
Maxilla bone grafting result

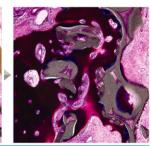
New bone formation observed at around grafted bone due to active osteoconduction from inner maxilla. interstices around the implant

Result of bone grafting to

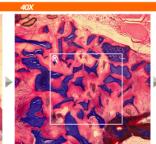
Active Osteoconduction is detected from existed alveolar and new bone is formed around grafted bone.









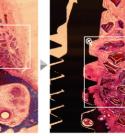




No osteoconduction from inner maxilla and no bone formation at around grafted bone.

No osteoconduction is detected from existed alveolar, no new bone formation around grafted bone.







Bongros®HAW BONECHIP preclinical test result Oral & Maxillofacial Surgery School of Dentistry. Seoul National University Prof. Soon Jung Hwang

Bone formation evaluation