

¹⁰⁹YGamma-bsm[®] Bone Substitute Material

Moldable | Bioresorbable
High Strength | Fast-Setting

Mixing Chart

Mixing Instructions

Begin the mixing process only when the defect is ready for implantation.



Peel away the induction seal from the blue jar and remove the vial containing ¹⁰⁹YGamma-bsm powder. Pour powder into the jar.



Withdraw the appropriate amount of saline using the supplied syringe and needle.
2.5 cc kit = 1.5 mL
5.0 cc kit = 3.0 mL
10.0 cc kit = 5.0 mL

Using an incorrect amount of saline will adversely affect the handling and setting characteristics of the material.



Dispense the saline into the mixing jar.



Using the broad end of the spatula, mix thoroughly for about a minute until the powder and saline are well incorporated to form a putty.

If the material appears dry or crumbly, continue mixing by spreading the material against the walls of the jar until a smooth consistency is reached.



Implant immediately using the spatula or mold and pack into the defect. The wound may be irrigated after the material has set.

If material is not implanted immediately, store between two wet gauzes for up to 15 minutes.

Be sure to check consistency after storing between the gauze pads prior to implanting.

Ensure material is kept below 32° C (90° F)

Check Consistency

Material is too wet if it is sticky. If material is too wet or sticky, place material between two sterile, dry gauze pads and gently pat until desired consistency is achieved. Material is too dry if it cannot be molded without crumbling. Material may become too dry if not stored appropriately. If material is too dry, simply add saline, a drop at a time, and remix thoroughly. Adding too much saline will cause the material to become wet and sticky.



Performance Criteria

Criteria	Feature	Benefit
Cohesive	Sets in a wet environment, may be irrigated after setting	Complete defect fill / resists wash out
Working Time	15 minutes	Intraoperative flexibility
Setting time	Sets in 3-5 minutes at 37°C ¹	No thermal necrosis ²
Drillability	Drillable during and after setting ³	Procedural flexibility
Sizes	2.5 cc, 5 cc and 10 cc	Accommodates a variety of applications

¹⁰⁹YGamma-bsm Ordering Information

Description	Part Number
2.5 cc Kit	76-6023
5.0 cc Kit	76-6005
10.0 cc Kit	76-6010

References

1. Etex TRE #030731
2. Colon DA, Yoon BJ, Russell TA, Cammisa FP, Abjornson C., Knaack D, Goad ME, Aiolova M, Rey C, Tofighi A, Chakravarthy P, Lee DD. Resorbable Calcium Phosphate Bone Substitute. J Biomed Mater Res. 1998 Winter;43(4):399-409
3. Etex TRE 202_144

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