

# Competitor Fact Sheet: OsteoBoost®



For Biocomposites' employees and authorized distributors internal use only.



Feature	STIMULAN®	OsteoBoost® OsteoRemedies®
Composition	Powder: 100% Pharmaceutical-grade $\text{CaSO}_4$ Mixing solution: Sterile water	Powder: $\text{CaSO}_4$ , Hydroxyapatite (HA), $\beta$ -Tricalcium phosphate Mixing solution: Sterile water <sup>4</sup>
Cleared for infected sites	Yes <sup>1</sup>	No - contraindicated <sup>4</sup>
Available sizes	Rapid Cure: 3cc, 5cc, 10cc, 20cc Kit: 5cc, 10cc	5cc, 10cc
Product per volume	<ul style="list-style-type: none"> <li>• 3cc box = 6.3g powder</li> <li>• 5cc box = 9.5g powder</li> <li>• 10cc box = 19.0g powder</li> <li>• 20cc box = 38.0g powder</li> </ul>	<ul style="list-style-type: none"> <li>• 5cc box (5g powder): Closest to 3cc STIMULAN box</li> <li>• 10cc box (10g powder): Closest to 5cc STIMULAN box<sup>2</sup></li> </ul>
Setting options and times	Rapid Cure: 4 minutes Kit (Standard set): 8 minutes	Standard set: 5+ minutes <sup>4</sup>
Formats	3 bead sizes, 2 bullet sizes, paste, injectable	Paste, injectable, 3 bead sizes <sup>4,5</sup>
Bead and bullet sizes	3.0mm, 4.8mm, 6.0mm beads 7.0mm, 9.0mm bullets	Specific sizes unknown
Bead or bullet mat included	<ul style="list-style-type: none"> <li>• Universal bead mats are included in 5cc, 10cc and 20cc boxes</li> <li>• A combination bead and bullet mat is included in the 3cc box</li> <li>• A bullet mat and introducer system is available for order</li> </ul>	<ul style="list-style-type: none"> <li>• Mold for small and medium beads included in 5cc box</li> <li>• Mold for medium and large beads included in 10cc box<sup>5</sup></li> </ul>
Impurities	No impurities <sup>2</sup>	Unknown
Claimed absorption rate	4-8 weeks <sup>1</sup>	Not specified. Expected to be > 6 months <sup>2</sup>

Feature	STIMULAN®	OsteoBoost® OsteoRemedies®
Fully absorbs	Yes <sup>1</sup>	No <sup>2</sup>
pH	Physiologic <sup>2</sup>	Neutral <sup>5</sup>
Hydrophilic or Hydrophobic	Hydrophilic <sup>2</sup>	Unknown
Third body damage	No third body damage to articulating surfaces <sup>2</sup>	May cause third body damage <sup>2</sup>
Peer-reviewed evidence	382 <sup>2</sup>	Unknown
Key selling points and weaknesses	(+) Cleared for use in infected sites <sup>1</sup> (+) Only STIMULAN undergoes a proprietary DRy26® recrystallization method which consists of 26 steps over 6 weeks and results in its consistent and reliable performance <sup>3</sup> (+) 100% Pharmaceutical-grade CaSO <sub>4</sub> (+) Contains no HA or insoluble impurities <sup>2</sup> (+) Absorbs at an optimal rate and leaves no nidus for infection <sup>2</sup> (+) No third body damage <sup>2</sup> (+) Fast and standard set options available (+) Bullet format available (+) 2x more product volume per cc <sup>2</sup> (+) In-house product development, manufacturing, marketing and distribution (+) Comprehensive support network for our customers and hospitals (+) 50,000 cases per year <sup>2</sup>	(+) Triphasic bone void filler <sup>4, 5</sup> (-) Contraindicated for infected sites <sup>4</sup> (-) Contraindicated for inflammatory bone disease (osteomyelitis) <sup>4</sup> (-) Contains HA, which has a slow and incomplete absorption rate <sup>2</sup> (-) HA can cause a long-term nidus for infection <sup>2</sup> (-) May cause third body damage <sup>2</sup> (-) No fast setting option available <sup>4, 5</sup> (-) 1/2 less product volume per cc <sup>2</sup>  * (+) = competitor selling points (-) = competitor weaknesses

#### References:

1. Biocomposites Ltd, STIMULAN Instructions for Use.
2. Biocomposites, Data on file.
3. Cooper, J.J., Method of producing surgical grade calcium sulphate; Patent. 1999.
4. OsteoRemedies OSTEOBOOST™ IFU. Spec 50688 Rev. A. Jul 2016.
5. OsteoRemedies OsteoBoost® Resorbable Bead Kit (RBK) Complex Problem – Simple Solution Brochure. 2-I8-V3.

For indications, contraindications, warnings and precautions see Instructions for Use. Concurrent use of locally administered antibiotics may affect setting time. This brochure may include the use of STIMULAN or techniques that go beyond the current clearance/approval granted by the relevant regulatory authority. Please contact your local representative for further information.

©2020, Biocomposites, STIMULAN, Bringing Calcium to Life, Power to Transform and DRy26 are trademarks/registered trademarks of Biocomposites Ltd. All rights reserved. No unauthorized copying, reproduction, distributing or republication is allowed unless prior written permission is granted by the owner, Biocomposites Ltd.

Patents granted: GB2367552, EP I204599 B1, US 6780391, EP 2594231 B1, US 88883063, CN ZL201210466117.X, GB2496710, EP 3058899 B1, US I0390954  
 Patents pending: GB1502655.2, US I5/040075, CN 201610089710.5, GB1704688.9, EP I8275044.8, US I5/933936, CN I08619579A

MA0304RI