



LifeNetHealth.org

LifeNetHealth.eu

Grafts not available in all markets.

**Europe** + 43 1 375002710 eu\_orders@lifenethealth.eu Latin America 
Asia
Middle East
1.757.464.4761 ext. 2000
internat.orders@lifenethealth.org





| Optium DBM Putty                   |            |
|------------------------------------|------------|
| Ambient Storage*/3 Year Shelf Life |            |
| Volume                             | Order Code |
| 1 cc                               | TPUT01     |
| 2.5 cc                             | TPUT02     |
| 5 сс                               | TPUT05     |
| 10 cc                              | TPUT10     |
|                                    |            |

## **Optium DBM Gel**

Ambient Storage\*/3 Year Shelf Life

| Volume | Order Code |
|--------|------------|
| 1 cc   | TGEL01     |
| 5 сс   | TGEL05     |
| 10 cc  | TGEL10     |
|        |            |

\*While ambient room temperature has not been defined by regulatory bodies, LifeNet Health would recommend storage at 2°C to 37°C with excursions of less than 24 hours up to 40°C. If an excursion outside this range occurs, please contact LifeNet Health.

Instructions for use available at LifeNetHealth.org/IFU

Grafts not available in all markets.

## References

- 1. Zhang M, Powers R, Wolfinbarger L. (1997). Effect(s) of demineralization process on the osteoinductivity of demineralized bone matrix. J Periodontol, 68:1085-1092.
- 2. Turonis JW, McPherson JC 3rd, Cuening MF. (2006). The affects of residual calcium in decalcified freeze-dried bone allograft in a critical-sized defect in the Rattus norvegicus calvarium. J Oral Implantol. 32(2), 55-62.
- 3. Herold RW, Pashley DH, Cuening MF. (2002). Effects of varying degrees of allograft decalcification on the cultured porcine osteoclast cells. J Periodontol, 72(2), 213-219.
- 4. Mott DA, Mailhot J, Cuenin MF, Sharawy M, Borke J. (2002). Enhancement of osteoblast proliferation in vitro by selective enrichment of demineralized freeze-dried bone allograft with specific growth factors. J Oral Implantiol, 28(2), 57-66.
- 5. Cornell C, Lane J. Current understanding of osteoconduction in bone regeneration. Clin Orthop Relat Res. 1998 Oct; (355 Suppl): S267-73..
- 6. Eisenlohr LM. "Allograft Tissue Sterilization Using Allowash XG®." 2007 Bio-Implants Brief.
- 7. Block JE. The Impact of Irradiation on the Microbiological Safety, Biomechanical Properties, and Clinical Performance of Musculoskeletal Allografts [white paper]. 2004.
- 8. Cammisa FP, Jr., Lowery G, Garfin SR, et al. Two-Year Fusion Rate Equivalency Between Grafton® DBM Gel and Autograft in Posterolateral Spine Fusion. Spine 2004;29:660-629.
- 9. Kang J, An H, Hilibrand A, Yoon ST, Kavanagh E, Boden S. Grafton and local bone have comparable outcomes to iliac crest bone in instrumented single-level lumbar fusions. Spine (Phila Pa 1976);37(12):1083-91
- 10. Park HW, Lee JK, Moon SJ, Seo SK, Lee JH, Kim SH. The efficacy of the synthetic interbody cage and Grafton for anterior cervical fusion. Spine (Phila Pa 1976). 2009;34(17):E591-5
- Sassard WR, Eidman DK, Gray PM, et al. Augmenting local bone with Grafton demineralized bone matrix for posterolateral lumbar spine fusion: avoiding second site autologous bone harvest. Orthopedics 2000;23:1059-64; discussion 64-5.
- 12. Thalgott JS, Giuffre JM, Fritts K, Timlin M, Klezl Z. Instrumented posterolateral lumbar fusion using coralline hydroxyapatite with or without demineralized bone matrix, as an adjunct to autologous bone. Spine J. 2001;1(2):31-7
- 13. Weinzapfel B, Son-Hing JP, Armstrong DG, et al. Fusion Rates After Thoracoscopic Release and Bone Graft Substitutes in Idiopathic Scoliosis Spine 2008;33:1079-1083.
- 14. Hamadouche M, Karoubi M, Dumaine V, Courpied J. The use of fibre-based demineralised bone matrix in major acetabular reconstruction: surgical technique and reconstruction results. Int Orthop. 2011;35:283-288
- 15. Pieske O, Wittmann A, Zaspel J, et al. Autologous bone graft versus demineralized bone matrix in internal fixation of long bones. J Trauma Manag Outcomes, 2009;3:11
- 16. Thordarson DB, Kuehn S. Use of demineralized bone matrix in ankle/hindfoot fusion. Foot Ankle Int. 2003;24(7):557-60
- 17. Hunt, D.G. & Chandler, C & Ulrich, D.A. & Poska, R & Montero, A. (2013). USP council of experts USP controlled room temperature range expansion. Pharmacopeial Forum. 39.

LifeNet Health, the LifeNet Health logo, Allowash XG, Optium, and PAD are registered trademarks of LifeNet Health. ©2021 LifeNet Health. All rights reserved 68-65-020.00



