



Biologics product catalog



Introduction

The NuVasive Biologics portfolio is a comprehensive suite of biologic offerings, consisting of procedurally integrated solutions to meet surgeons' needs. NuVasive offers a variety of biologic products, which include the following: Osteocel, the most studied cellular allograft in the market; Attrax Putty, the first and only ceramic supported by Level 1 evidence as a bone graft substitute in posterolateral spine fusions¹ and Attrax Scaffold; Propel Demineralized Bone Matrix (DBM), available in Putty, Gel, Plus versions with added cancellous chips, Fibers, and Sponges; FormaGraft, a highly absorbent, compression-resistant collagen bone graft matrix; traditional bone allograft such as cancellous chips; and Amniotic Membrane DS, a dual-layer surgical barrier.

With our comprehensive Biologics portfolio, NuVasive is your trusted partner for biologic solutions.

Osteocel

Features

- Osteogenic,² osteoconductive³ and osteoinductive⁴
- The most studied cellular allograft in the market with 30+ peer-reviewed articles and abstracts that support its use
- Simplified preparation and cohesive handling with Osteocel Pro

Allograft cellular bone matrix

Catalog no.	Description
5016001	Osteocel Pro, small (1 cc)
5016005	Osteocel Pro, medium (5 cc)
5016010	Osteocel Pro, large (10 cc)
5013001	Osteocel Plus (1 cc)
5013005	Osteocel Plus (5 cc)
5013010	Osteocel Plus (10 cc)
5013015	Osteocel Plus (15 cc)



Osteocel Pro



Osteocel Plus

Attrax | Backed by Level I data

Attrax Putty is now the first and only ceramic supported by Level I evidence as a bone graft substitute.*

Features

- Optimized microarchitecture designed to drive increased bone formation⁵
- Randomized controlled trial shows Attrax Putty alone successfully demonstrates non-inferior fusion performance compared to autograft in PLF¹
- Alkylene oxide copolymer (AOC) carrier makes Attrax Putty cohesive and highly moldable
- Entangled collagen matrix allows Attrax Scaffold to readily absorb fluids

Ceramic

Catalog no.	Description
5015001	Attrax Putty cylinder (1 cc)
5015002	Attrax Putty cylinder (2 cc)
5015005	Attrax Putty strip (5 cc)
5015006	Attrax Putty block (6 cc)
5015010	Attrax Putty strip (10 cc)

Ceramic with collagen

Catalog no.	Description
5015101	Attrax Scaffold strip—quantity 2 (15 cc)
5015102	Attrax Scaffold strip—quantity 2 (30 cc)
5015103	Attrax Scaffold block (2 cc)
5015104	Attrax Scaffold block (6 cc)
5015106	Attrax Scaffold block (10 cc)
5015110	Attrax Scaffold morsels (10 cc)
5015120	Attrax Scaffold morsels (20 cc)
5105130	Attrax Scaffold morsels (30 cc)



Attrax Putty cylinder



Attrax Putty strip



Attrax Putty block



Attrax Scaffold strip



Attrax Scaffold block



Attrax Scaffold morsels

Propel DBM Putty and Gel

Features

- Provides a scaffold and signals⁴ to support new bone growth
- Reverse phase medium (RPM) carrier firms up at body temperature
- Propel DBM Gel Plus and Putty Plus contain added cancellous chips

Demineralized bone matrix

Catalog no.	Description
5020001	Propel DBM Putty (1 cc)
5020005	Propel DBM Putty (5 cc)
5020010	Propel DBM Putty (10 cc)
5020205	Propel DBM Putty Plus (5 cc)
5020210	Propel DBM Putty Plus (10 cc)
5020301	Propel DBM Gel (1 cc)
5020305	Propel DBM Gel (5 cc)
5020310	Propel DBM Gel (10 cc)
5020401	Propel DBM Gel Plus (1 cc)
5020403	Propel DBM Gel Plus (3 cc)
5020408	Propel DBM Gel Plus (8 cc)



Propel DBM Putty



Propel DBM Gel

Propel DBM Fibers

Features

- 100% bone without a carrier
- Prehydrated and ready to use
- Available in procedurally appropriate shapes and sizes

Demineralized bone matrix fibers

Catalog no.	Description
5022101	Propel DBM Fibers (1 cc)
5022105	Propel DBM Fibers (5 cc)
5022110	Propel DBM Fibers (10 cc)
5022112	Propel DBM Fibers, small boat 50x25 mm (5 cc)
5022113	Propel DBM Fibers, large boat 100x25 mm (10 cc)



Propel DBM Fibers



Propel DBM Fiber boats

Propel DBM Sponge

Features

- Becomes flexible and compressible upon hydration
- Monolithic—engineered as a single piece of bone for handling and ease of use
- Naturally absorbs and retains hydrating agents

Demineralized bone matrix sponge

Catalog no.	Description
5021101	Propel DBM Sponge strip, small 10x20x3 mm
5021102	Propel DBM Sponge strip, medium 15x40x3 mm
5021103	Propel DBM Sponge strip, large single pack 20x50x3 mm
5021104	Propel DBM Sponge strip, large 2-pack 20x50x3 mm
5021108	Propel DBM Sponge cube, 8 mm
5021110	Propel DBM Sponge cube, 10 mm
5021112	Propel DBM Sponge cube, 12 mm
5021114	Propel DBM Sponge cube, 14 mm



Propel DBM Sponge strip



Propel DBM Sponge cube

Formagraft

Features

- Balanced ratio of HAp to β -TCP for a controlled degradation rate
- Highly absorbent, compression-resistant matrix

Collagen bone graft matrix

Catalog no.	Description
5010085	Formagraft XL block, small (4 cc)
5010125	Formagraft XL block, large (6 cc)
5010205	Formagraft strip, small (3 cc)
5010200	Formagraft strip, large (6 cc)
5010005	Formagraft granules (5 cc)
5010010	Formagraft granules (10 cc)
5010020	Formagraft granules (20 cc)



Formagraft XL blocks



Formagraft strips



Formagraft granules

Traditional bone allograft

Features

- Provides a scaffold for bone growth
- Available in a variety of graft options

Cancellous chips

Catalog no.	Description
12511015	Demineralized cancellous chips, 1–9.5 mm, freeze dried (15 cc)
12511030	Demineralized cancellous chips, 1–9.5mm, freeze dried (30 cc)
27615005	Cancellous chips, 4–9.5 mm, freeze dried (5 cc)
27615015	Cancellous chips, 4–9.5 mm, freeze dried (15 cc)
27615030	Cancellous chips, 4–9.5 mm, freeze dried (30 cc)
27615060	Cancellous chips, 4–9.5 mm, freeze dried (60 cc)
27615090	Cancellous chips, 4–9.5 mm, freeze dried (90 cc)
27617015	Cancellous chips, 4–9.5 mm, frozen (15 cc)
27617030	Cancellous chips, 4–9.5 mm, frozen (30 cc)



Cancellous chips

Cancellous crushed

Catalog no.	Description
27715005	Cancellous crushed, 1–4 mm, freeze dried (5 cc)
27715015	Cancellous crushed, 1–4 mm, freeze dried (15 cc)
27715030	Cancellous crushed, 1–4 mm, freeze dried (30 cc)
27715060	Cancellous crushed, 1–4 mm, freeze dried (60 cc)
27715090	Cancellous crushed, 1–4 mm, freeze dried (90 cc)
27717005	Cancellous crushed, 1–4 mm, frozen (5 cc)
27717015	Cancellous crushed, 1–4 mm, frozen (15 cc)
27717030	Cancellous crushed, 1–4 mm, frozen (30 cc)



Cancellous crushed

Cortical cancellous chips

Catalog no.	Description
11515015	Cortical cancellous chips, 1–9.5 mm, freeze dried (15 cc)
11515030	Cortical cancellous chips, 1–9.5 mm, freeze dried (30 cc)
11517015	Cortical cancellous chips, 1–9.5 mm, frozen (15 cc)
11517030	Cortical cancellous chips, 1–9.5 mm, frozen (30 cc)



Cortical cancellous chips

Amniotic Membrane DS

Features

- Natural surgical barrier that stays through critical healing
- Unique, 2-layer design improves handling characteristics
- Packaged wet—no hydration required

Amniotic Membrane

Catalog no.	Description
5025022	Amniotic Membrane DS, 2x2 cm
5025024	Amniotic Membrane DS, 2x4 cm
5025044	Amniotic Membrane DS, 4x4 cm
5025048	Amniotic Membrane DS, 4x8 cm



Amniotic Membrane DS

Bone Graft Delivery instrumentation and accessories

Features

- Graft Delivery System (GDS) can deliver up to 2.5 times quicker than traditional funnel delivery⁶
- GDS designed to provide accurate and predictable delivery of graft material
- Bone marrow aspiration (BMA) needles are ergonomic in design and available in multiple lengths

Bone Graft Delivery PLIF/TLIF/PLF

Catalog no.	Description
5120000	MAS Graft Delivery System

BMA needles

Catalog no.	Description
5010001	6-port BMA needle, 11 G, 4"
5010008	6-port BMA needle, 11 G, 8"



MAS Graft Delivery System




BMA needles

References

1. Lehr MA, Oner CF, Delawi D, et al. Efficacy of a Standalone Microporous Ceramic vs. Autograft in Instrumented Posterolateral Spinal Fusion; a Multicenter, Randomized, Intra-patient Controlled, Non-inferiority Trial. *Spine* 2020; published ahead of print.
2. Cellular Viability and Osteogenic Potential of Osteocelel® Plus after Cryopreservation. NuVasive White Paper 9500331 A. February 2009.
3. Kerr EJ, Jawahar A, Wooten T, et al. The use of osteo-conductive stem-cells allograft in lumbar interbody fusion procedures: an alternative to recombinant human bone morphogenetic protein. *J Surg Orthop Adv* 2011;20(3):193-7.
4. Urist MR. Bone: formation by autoinduction. *Science* 1985. Nov 12; 150(3698):893-9.
5. Yuan H, Fernandes H, Habibovic P, et al. Osteoinductive ceramics as a synthetic alternative to autologous bone grafting. *PNAS* 2010;107(31):13614-9.
6. Data on file: TR96002762

*Based on review of publicly available materials at the time of this release (4/1/2020).

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