

Bio-Implant Reference Manual



International Use Only

Bio-Implant Reference Manual



Saving Lives, Restoring Health is our business.

Nowhere is the reality of death more evident than in the decision-making process surrounding tissue and organ donation. It's a course of action that involves everything from the simple to the complex, from the sadly certain to the certainly optimistic. LifeNet Health takes this tragedy and turns it into hope.

Our full line of allograft bio-implants maximizes the precious gift of donated tissue and provides surgeons with the tools they need to improve the lives of patients.

By making the finest quality allograft bio-implants easily accessible, we continue to provide exemplary service to clinicians and hospitals.

Every year, LifeNet Health distributes over 400,000 bio-implants to meet the urgent needs of hospitals and patients around the world.

Our record of safety is unmatched. And our philosophy is simple: When partnering with a bio-implant supplier, your decision should not be based solely on fee, but rather on the overall value you and your patients expect and deserve.

At LifeNet Health, we deliver that value by excelling in these critical areas – safety, quality, innovation, service, clinical effectiveness, supply chain reliability and experience.

With LifeNet Health as your primary bio-implant supplier, you are investing in the best possible value to ensure the well-being of your patients and the reputation of your hospital.

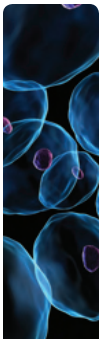
This is the value of working with LifeNet Health.

Contents



4	The Value of Working with LifeNet Health
5	Bio-Implant Portfolio
6	Suite of Allograft Technologies
7-46	Products
47	Ordering LifeNet Health Allograft Bio-Implants

Products

								
7	19	22	25	29	36	39	43	46
Traditional Core Allografts	Osteoarticular Grafts	Osteobiologics	Sports Medicine	Spine	Skin and Wound	Dental / CMF	Cardiac	Vascular

NOTE: Not all products are available in all countries. Please check availability before ordering.

The Value of Working with LifeNet Health

Safety

For over 30 years, we have refined and defined safety in the allograft industry. Our processes, quality systems, and proprietary cleaning and sterilization technologies are designed to ensure the utmost safety for your patient - **reducing the probability of infection that could be caused by an allograft implant, and saving your facility unexpected costs.** Infections erode profits and hold legal ramifications if hospitals fail to implement best practices in infection control. Since 1995, over four million bio-implants processed using Allowash technology have been distributed by LifeNet Health with no disease transmission.

The thread of safety is woven through every step of the donation process, including:

- Nationwide Recovery Network
- Physical Examination & Recovery Protocols
- Controlled Processing & Terminal Sterilization
- Stringent Donor Screening and Review
- Bacteria & Serology Testing
- Final MD Review & Release

Quality

LifeNet Health's controlled tissue processing environment is designed to ensure bio-implant quality and safety. Through the consistent application of quality systems, quality control, and design control processes, LifeNet Health bio-implants are designed and manufactured to ensure the highest possible quality. **LifeNet Health grafts consistently perform as they should, allowing medical professionals to focus on the procedure, and patients to focus on healing.** Year after year, this dedication to quality is validated internally, and vetted by your peers, as well as government and industry regulators.

- Extraordinary Design Control Processes
- Validation
- Quality Control Post-Processing Testing
- **A product complaint rate of approximately 0.1%**
- ISO, AATB, FDA, CLIA accreditations and certifications

Innovation

Because LifeNet Health leads the industry, and our innovations bring both clinicians and patients the most up-to-date technologies, **choosing LifeNet Health means choosing a partner able to consistently provide you with products, technologies, and services designed to improve safety, clinical effectiveness, ease of use and, ultimately, cost for the facility.** Since opening its doors in 2012, the LNH Institute of Regenerative Medicine has been a hub of research and development activity, and **can supply you with the products to meet your needs now - and in the future.**

Service

Healing never takes a vacation, and neither do we. We offer strategic inventory alternatives, and have a team of product managers and services specialists dedicated to meet your needs to save you valuable time. And LifeNet Health offers value-added, and award-winning programs to complement the continuing education needs of your staff.

- Global Network of Partners
- Continuing Education Programs (on and off-site)
- Consignment Options
- Sales & Consulting Support
- Room Temperature Products

Clinical Effectiveness

Our extensive portfolio of implants consistently performs at the highest level because LifeNet Health has invested considerable resources performing multiple clinical studies to ensure your patients' outcomes are positive.

Supply Chain Reliability

LifeNet Health offers you a partner with bi-coastal production facilities - ensuring a dedicated supply of much needed allograft products to your facility. And we are working towards being able to produce and process our entire extensive portfolio at each facility, which supports nearly every surgical discipline.

- Multiple Distribution Centers
- World's 2nd-largest Access to Donor Tissue

Experience

Many of the world's largest orthopedics companies partner with and rely on LifeNet Health's expertise and experience.

As a non-profit organization, LifeNet Health is able to focus our energies and passion to our mission of saving lives and restoring health – not shareholders' concerns for the bottom line.

- Over 30 years of tissue banking experience
- First of its kind to become ISO certified
- Preferred allograft provider to 6 of US News & World Report's top 10 hospitals
- Longest-running AATB certification
- Trusted partner of leading orthopedics companies

Bio-Implant Portfolio



AngioGRAFT®

Bio-Implants for
Vascular Procedures

Allograft bio-implants are available for managing vascular reconstruction.

OsteoBIOLOGICS

Enhancing Natural Healing

Cross-specialty bio-implants engineered to enhance bone regeneration.

CardioGRAFT®

Bio-Implants for
Cardiac Procedures

Suitable for a wide variety of complex congenital heart defects, as well as for adults with extensive valvular disease.

ReadiGRAFT®

Readily Available Cross-Specialty Bio-Implants

Bio-implants widely used for fracture management, general orthopedics, spine surgeries, and total joint arthroplasty.

FlexiGRAFT®

Bio-Implants for
Sports Medicine

FlexiGraft ligaments, tendons and bone are ideal for sports medicine applications. (Includes ArthroFlex®)

VertiGRAFT®

Specialty Bio-Implants for
Spine Surgery

The bone wedges and shafts are available in many sizes and configurations to fit various spine surgery applications.

MatriGRAFT®

Durable Allograft
Bio-Implants

MatriGraft bio-implants are typically used for general orthopedics, fracture management, total joint arthroplasty, and spine surgery.



ArthroFLEX®

Acellular Bio-Implant for
Soft Tissue Repair

Advanced decellularized dermis for soft tissue and wound management applications."

OraGRAFT®

Bio-Implants for
Oral/Maxillofacial
Procedures

Hard and soft bio-implants generally used for sinus augmentation, craniofacial reconstruction, and correction of periodontal and ridge defects. (Includes OraCell®)

OrACELL®

Decellularized Dermis for
Maxillofacial Applications

Allograft Technologies



The safety and quality of your allograft bio-implants are critical to you and your patients. As a leading regenerative medicine company, LifeNet Health has developed a full suite of technologies to ensure these needs are met with every bio-implant we provide.



MATRACELL® Allograft Bio-Implant Decellularization

This patented and validated process renders allograft bio-implants acellular, without compromising the biomechanical or desired biochemical properties of an allograft bio-implant for its intended surgical application.



ALLOWASH XG® Bio-Implant Sterilization

For optimal safety, this patented sterilization process renders allograft bio-implants sterile, without compromising biomechanical or biochemical properties.



PRESERVON® Allograft Bio-Implant Preservation

Our proprietary, preservation solution allows bio-implants to be stored in a fully hydrated state at ambient temperature. This eliminates the need for lengthy rehydration, and saves valuable OR time.



PAD® Allograft Bio-Implant Demineralization

Our technology provides precise bone demineralization to achieve the ideal residual calcium level of 1 to 4%. This controlled process protects bone morphogenic proteins (BMPs) while ensuring optimal osteoinductivity.



Traditional Core Allografts

Bone Void Fillers

Cancellous Chips | **ReadiGRAFT[®]**

0.1 - 2 mm	Size	Preservon		
	5 cc			PCAN5 12
	15 cc			PCAN15 12
	30 cc			PCAN30 12

1 - 4 mm	Size	Freeze-Dried	Frozen	Preservon
	5 cc			PCAN5 14
	15 cc	CAN15 14BP	FCAN15 14	PCAN15 14
	20 cc	CAN20 14BP		PCAN20 14
	30 cc	CAN30 14BP	FCAN30 14	PCAN30 14
	40 cc	CAN40 14BP		PCAN40 14
	60 cc	CAN60 14BP	FCAN60 14	PCAN60 14
	90 cc	CAN90 14BP	FCAN90 14	PCAN90 14
	80 cc	CAN80 14BP		PCAN80 14



Traditional Core Allografts

Cancellous Chips continued



1.7 - 10 mm	Size	Preservon
	15 cc	PCAN15 1710
	30 cc	PCAN30 1710
	60 cc	PCAN60 1710
	90 cc	PCAN90 1710

1 - 8 mm	Size	Freeze-Dried	Frozen	Preservon
	5 cc	CAN5		PCAN5
	10 cc	CAN10	PCAN10	
	15 cc	CAN15	FCAN15	PCAN15
	20 cc	CAN1/4	FCAN1/4	PCAN1/4
	30 cc	CAN30	FCAN30	PCAN30
	40 cc	CAN1/2	FCAN1/2	PCAN1/2
	60 cc	CAN60		PCAN60
	80 cc	CAN1	FCAN1	PCAN1
	90 cc	CAN90	FCAN90	PCAN90
	160 cc		FCAN2	

3 - 6 mm	Size	Preservon
	30 cc	PCAN30 36

4 - 10 mm	Size	Freeze-Dried	Frozen	Preservon
	15 cc	CAN15 410BP	FCAN15 410	PCAN15 410
	30 cc	CAN30 410BP	FCAN30 410	PCAN30 410
	60 cc	CAN60 410BP	FCAN60 410	PCAN60 410
	90 cc	CAN90 410BP	FCAN90 410	PCAN90 410

Cancellous Blocks | ReadiGRAFT®

2 x 2 x 3 cm	Freeze-Dried	Preservon
	CANBLOCK	PCANBLOCK
1.5 x 1.5 x 3 cm	Freeze-Dried	Preservon
	CANBLOCK 1.5	PCANBLOCK 1.5

Cancellous Cubes | ReadiGRAFT®

0.5 x 0.5 x 0.5 cm	Size	Freeze-Dried	Preservon
	5 cc	CANCUBE05 S	CANCUBE05 SP
	15 cc	CANCUBE15 S	CANCUBE15 SP
1 x 1 x 1 cm	Size	Freeze-Dried	Preservon
	20 cc (8 cubes)	CANCUBE1/4	PCANCUBE1/4
	30 cc (12 cubes)	CANCUBE30	PCANCUBE30
	40 cc (16 cubes)	CANCUBE1/2	PCANCUBE1/2



Corticocancellous Chips | ReadiGRAFT®

0.1 - 2 mm	Size	Preservon
	5 cc	PCC 12
	15 cc	PCC15 12
	30 cc	PCC30 12



Traditional Core Allografts

Chips continued



1 - 4 mm	Size	Preservon
	15 cc	PCC15 14
	30 cc	PCC30 14
	60 cc	PCC60 14
	90 cc	PCC90 14

1 - 8 mm	Size	Freeze-Dried	Preservon
	10 cc	CC10	PCC10
	15 cc		PCC15
	20 cc	CC1/4	PCC1/4
	30 cc	CC30	PCC30
	40 cc	CC1/2	PCC1/2
	60 cc	CC60	PCC60
	90 cc	CC90	PCC90

Demineralized Cancellous Chips | **ReadiGRAFT®**

1 - 8 mm	Size	Freeze-Dried
	40 cc	DCAN40

Demineralized Corticocancellous Chips | **ReadiGRAFT®**



1 - 8 mm	Size	Freeze-Dried
	20 cc	DCC1/4

Demineralized Cortical Particulate | ReadigRAFT®

125 - 1000 microns	Size	Freeze-Dried
	20 cc	DGC20
	40 cc	DGC40

Soft Tissue



Pericardium | ReadigRAFT®

	Size	Freeze-Dried
	15 x 15 mm	PERI1.5
SMALL	20 x 40 mm	PERI S
MEDIUM	40 x 40 mm	PERI M
LARGE	60 x 60 mm	PERI L



Fascia Lata | ReadigRAFT®

	Size	Freeze-Dried
SMALL	30 x 60 mm	FL S
MEDIUM	30 x 150 mm	FL M
LARGE	80 x 200 mm	FL L
STRIP	3 x 150 mm (2 per pack)	FL STRIP
CUSTOM	60 x 100 mm	FLC



Traditional Core Allografts

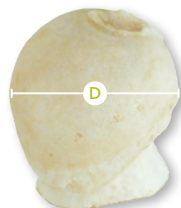
Structural - Spine & General Orthopedics

Cross Sections | MatriGRAFT®

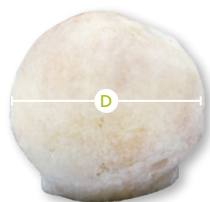


CALCANEUS	Thickness	Preservon
	8 mm	FA-1000-001
	10 mm	FA-1000-002
	12 mm	FA-1000-003

Heads | MatriGRAFT®



FEMORAL	Length	Frozen
FEMORAL HEAD	≥ 43 mm	FFH
FEMORAL HEAD W/ NECK	≥ 43 mm (Neck L= 10 - 12 mm)	FFHN



HUMERAL	Length	Frozen
HUMERAL HEAD	≥ 43 mm	FHH

Traditional Core Allografts

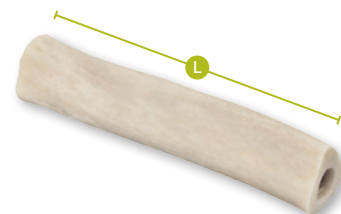
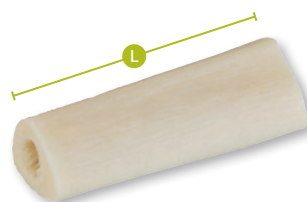
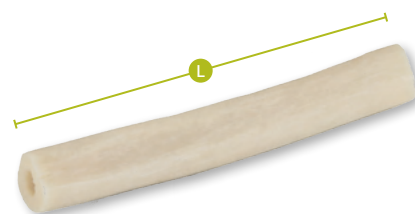
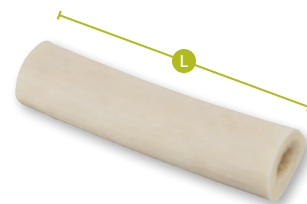
Shafts | MatriGRAFT®

FEMORAL	Length	Freeze-Dried	Frozen	Preservon
	60 mm	FEM 6.0		PFEM 6.0
	100 mm	FEM	FFSS	PFEM
	≥ 200 mm		FFS	

FIBULAR	Length	Freeze-Dried	Frozen	Preservon
	20 mm	FIB 2.0		PFIB 2.0
	40 mm	FIB 4.0		PFIB 4.0
	50 mm		FFIB5.0	
	60 mm	FIB 6.0		PFIB 6.0
	80 mm	FIB 8.0		PFIB 8.0
	100 mm	FIB	FFIB10	
	150 mm		FFIB	
	> 200 mm		FFIBS	

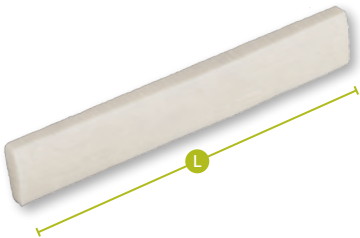
TIBIAL	Length	Freeze-Dried	Frozen
	60 mm	TIB 6.0	
	100 mm	TIB	FTSS
	≥ 200 mm		FTS

HUMERAL SHAFT	Length	Frozen
	> 200 mm	FHSS

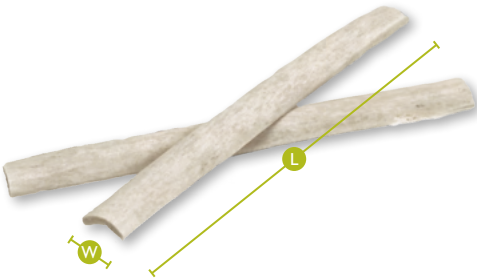


Traditional Core Allografts

Struts | MatriGRAFT®



FEMORAL	Length	Freeze-Dried	Frozen
CORTICAL STRUT	15 x 100 mm (1 per pack)	CS1	
	15 x 100 mm (2 per pack)	CS	
CORTICAL STRUT	10 x 45 mm (1 per pack)		FCS1.0
CORTICAL STRUT	15 x 120 mm (1 per pack)		FCS1.5
CORTICAL STRUT	20 x 200 mm (1 per pack)		FCS
CORTICAL STRUT QUARTER	> 210 mm		FCSQ
CORTICAL STRUT HALVED	> 210 mm		FBFS
CORTICAL MATCH STICKS	5 x 100 mm (6 per pack)	CMS	

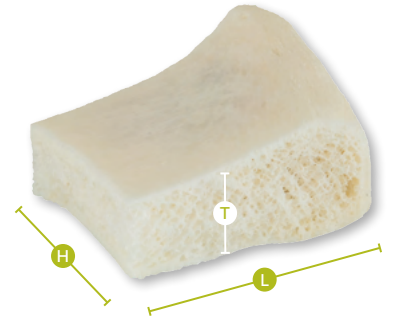


TIBIAL	Length	Freeze-Dried	Frozen
	15 x 100 mm (2 per pack)	CST	
	20 x 200 mm		FTCS

Traditional Core Allografts

Wedges | MatriGRAFT®

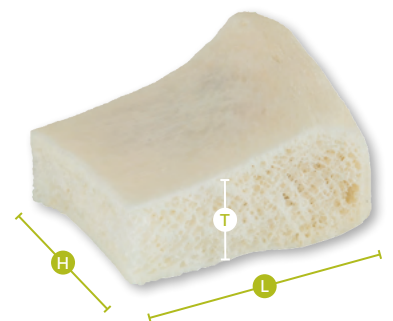
ILIAC CREST (Tricortical)	Height	Freeze-Dried	Preservon
	6 mm	ICW0.6	PICW0.6
	7 mm	ICW0.7	PICW0.7
	8 mm	ICW0.8	PICW0.8
	9 mm	ICW0.9	PICW0.9
	10 mm	ICW1	PICW1
	12 mm	ICW2	PICW2
	15 mm	ICW5	PICW5
	18 mm	ICW8	PICW8
	20 mm	ICW5	PICW5
	25 mm	ICW2.5	PICW2.5



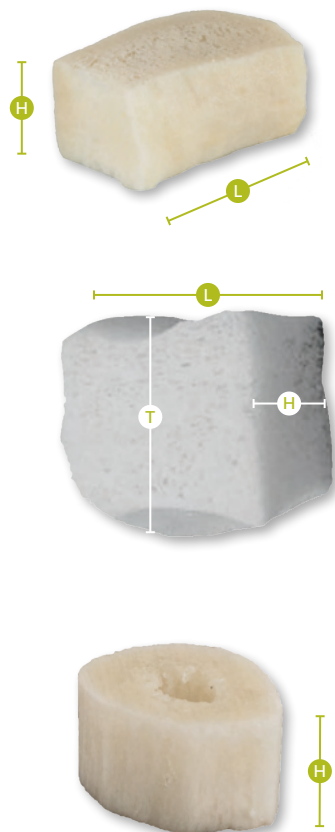
ILIUM STRIPS (Tricortical)	Height/Length	Preservon
	45 mm / 22 mm	IC-1000-001
	50 mm / 22 mm	IC-1000-002
	55 mm / 22 mm	IC-1000-003
	60 mm / 22 mm	IC-1000-004
	60 mm / 35 mm	IC-1000-005



CANCELLOUS (Tricortical)	Height	Freeze-Dried	Preservon
11 - 16 mm Length	5 mm	TCWP5	PTCWP5
	6 mm	TCWP6	PTCWP6
	7 mm	TCWP7	PTCWP7
	8 mm	TCWP8	PTCWP8
	9 mm	TCWP9	PTCWP9
	10 mm	TCWP10	PTCWP10
	11 mm	TCWP11	PTCWP11
	12 mm	TCWP12	PTCWP12



Traditional Core Allografts



Wedges continued

PATELLA	Height	Freeze-Dried	
	12 mm	PAT.WEDGE	
	15 mm	PAT.WEDGE5	
	18 mm	PAT.WEDGE8	

CALCANEUS	Height	Freeze-Dried	
	15 mm	POD.WEDGE	
	18 mm	POD.WEDGE8	

FIBULA (Round)	Height	Freeze-Dried	Frozen
	6 mm	FIBW0.6	
	8 mm	FIBW0.8	
	10 mm	FIBW1	
	12 mm	FIBW2	
	14 mm	FIBW4	
	16 mm	FIBW6	
	18 mm	FIBW8	
			FFIBW8

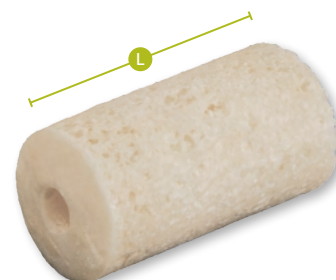
Traditional Core Allografts

UNICORTICAL CANCELLOUS SPACER	Height	Freeze-Dried
	5 mm	CCSPR5
	6 mm	CCSPR6
	7 mm	CCSPR7
	8 mm	CCSPR8
	9 mm	CCSPR9
	10 mm	CCSPR10



Dowels | MatriGRAFT®

CLOWARD	Diameter	Frozen	Preservon
	10 mm (Length > 15 mm)	CL10	PCL10
	11 mm (No Septin hole)	MR11	PCL11
	12 mm (Length > 15 mm)	CL12	PCL12
	13 mm (Length > 15 mm)	M17HS (CL13)	PCL13
	14 mm (Length > 15 mm)	CL14	PCL14
	16 mm (Length > 15 mm)	CL16	PCL16
	18 mm (Length > 15 mm)	CL18	PCL18



Traditional Core Allografts

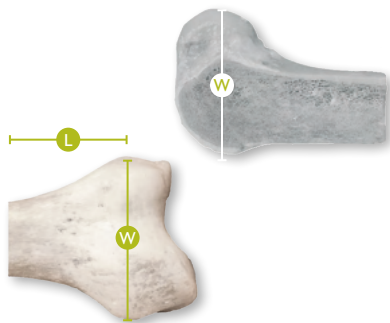
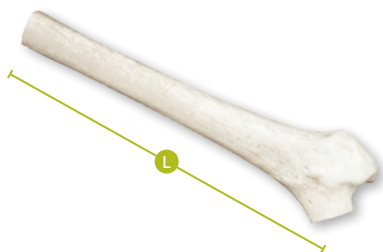
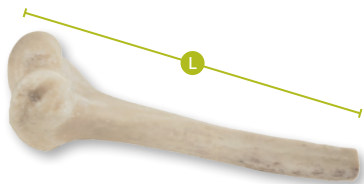
Large Segmental & Reconstructive

Femurs | MatriGRAFT®

FEMUR DISTAL	Size	Frozen
DISTAL	VARIES	FDF

FEMUR PROXIMAL	Size	Frozen
PROXIMAL W/O HEAD	VARIES	FPF
PROXIMAL W/HEAD	VARIES	FPFH

FEMUR CONDYLE	Size	Frozen
HEMI-CONDYLE	LATERAL OR MEDIAL	FHC
WHOLE-CONDYLE	LATERAL OR MEDIAL	FWC





Osteoarticular Grafts

Large Segmental and Reconstructive

Femur

Product Description		Frozen
Femur Distal (Left)		FDL60
Femur Distal (Right)		FDR60
Femur Distal with Growth Plate (Left)		FDL67
Femur Distal with Growth Plate (Right)		FDR67
Femur Proximal without Head (Left)		PFL10
Femur Proximal without Head (Right)		PFR10
Femur Proximal with Head (Left)		FPL64
Femur Proximal with Head (Right)		FPR64
Femur Whole without Head (Left)		FWL60
Femur Whole without Head (Right)		FWR60
Femur Whole with Head (Left)		FWL64
Femur Whole with Head (Right)		FWR64
Femur Whole with Growth Plate (Left)		FWL67
Femur Whole with Growth Plate (Right)		FWR67

Osteoarticular Grafts

Fibula, Ulna, Radius

Product Description		Frozen
Ulna (Left)		ULL60
Ulna (Right)		ULR60
Radius (Left)		RSL60
Radius (Right)		RSR60

Humerus

Product Description		Frozen
Humerus Proximal with Rotator Cuff (Left)		HPL60
Humerus Proximal with Rotator Cuff (Right)		HPR60
Humerus Proximal with Growth Plate (Left)		HPL67
Humerus Proximal with Growth Plate (Right)		HPR67
Humerus Whole with Rotator Cuff (Left)		HWL60
Humerus Whole with Rotator Cuff (Right)		HWR60
Humerus Whole with Growth Plate (Left)		HWL67
Humerus Whole with Growth Plate (Right)		HWR67

Ankle, Metacarpal Phalange

Product Description		Frozen
Ankle - Talus (Left)		ATL60
Ankle - Talus (Right)		ATLR60
Ankle - Whole (Left)		ANL60
Ankle - Whole (Right)		ANR60
Metacarpal Phalange (Left)		MCL60
Metacarpal Phalange (Right)		MCR60

Elbow

Product Description	Frozen
Elbow (Left)	ELL60
Elbow (Right)	ELR60



Pelvic, Scapula

Product Description	Order Code
Hemi Pelvis (Left)	PHL10
Hemi Pelvis (Right)	PHR10
Hemi Pelvis (Left)	PHL30
Hemi Pelvis (Right)	PHL30
Scapula (Left)	SCL60
Scapula (Right)	SCR60



Tibia

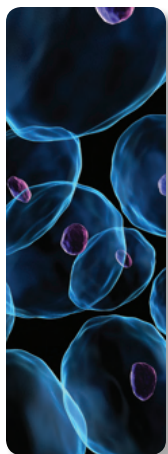
Product Description	Order Code
Tibia Proximal with Patella (Left)	TPL64
Tibia Proximal with Patella (Right)	TPR64
Tibia Proximal with Growth Plate (Left)	TPL67
Tibia Proximal with Growth Plate (Right)	TPR67
Tibia Whole with Patella (Left)	TWL64
Tibia Whole with Patella (Right)	TWR64
Tibia Whole with Growth Plate (Left)	TWL67
Tibia Whole with Growth Plate (Right)	TWR67



Knee

Product Description	Order Code
Knee (Left)	KNL60
Knee (Right)	KNR60





Osteobiologics

Cancellous Sponge | **ReadiGRAFT®** BLX



CUBES	Size	Freeze-Dried
	8 x 8 x 8 mm	OSC1003
	10 x 10 x 10 mm	OSC1000
	12 x 12 x 12 mm	OSC1001
	14 x 14 x 14 mm	OSC1002



STRIPS	Size	Freeze-Dried
	10 x 20 x 2 mm	OSS3001
	15 x 40 x 2 mm	OSS3002
	20 x 50 x 2 mm	OSS3003
	20 x 25 x 6 mm	OSS3004
	15 x 20 x 6 mm	OSS3005
	10 x 20 x 8 mm	OSS3006



FILLERS, 1 - 8 mm	Size	Freeze-Dried
	2.5 cc	OSF2000
	5.0 cc	OSF2001
	10.0 cc	OSF2002

Demineralized Fibers | **ReadiGRAFT®** BLX

CORTICAL FIBERS + CANCELLOUS	Size	Freeze-Dried
	2 cc	DF-1002
	5 cc	DF-1003
	10 cc	DF-1006
	15 cc	DF-1004
	30 cc	DF-1005



Demineralized Fibers | **FlexiGRAFT®** DBM

CORTICAL FIBERS	Size	Freeze-Dried
	1.0 cc	BL-1000-001
	2.5 cc	BL-1000-002
	5.0 cc	BL-1000-003
	10.0 cc	BL-1000-004

Optium® DBM

GEL	Size	Freeze-Dried
	1.0 cc	TGEL01
	5.0 cc	TGEL05
	10.0 cc	TGEL10



PUTTY	Size	Ambient
	1.0 cc	TPUT01
	2.5 cc	TPUT02
	5 cc	TPUT05
	10 cc	TPUT10



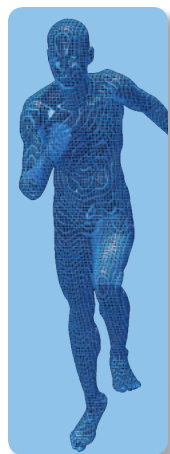
DBM Putty | **Readi**GRAFT® BLX

BLX DBM PUTTY	Size	Ambient
	0.5 cc	BF-1000-001
	1.0 cc	BF-1000-002
	2.5 cc	BF-1000-003
	5.0 cc	BF-1000-004
	10.0 cc	BF-1000-005

DBM Putty Crunch | **Readi**GRAFT® BLX

BLX DBM and CRUNCH PUTTY	Size	Ambient
	0.5 cc	BL-1400-001
	1.0 cc	BL-1400-002
	2.5 cc	BL-1400-003
	5.0 cc	BL-1400-004
	10.0 cc	BL-1400-005



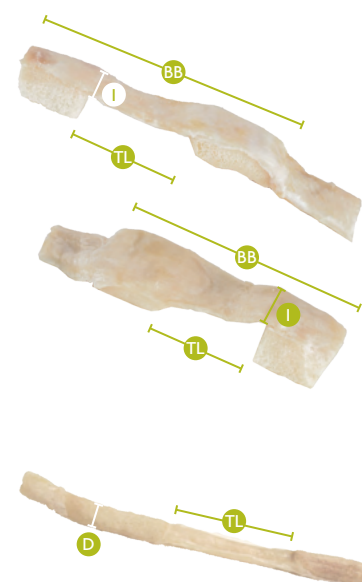


Sports Medicine

Patellar Ligaments | FlexiGRAFT®

PATELLAR LIGAMENTS	Size	Frozen
BISECTED PATELLAR LIGAMENT	10 mm Minimum Insertion Width	FBPL
BISECTED PATELLAR LIGAMENT W/SMALLER BLOCK	10 mm Minimum Insertion Width	FBPLSB
WHOLE PATELLAR W/SMALLER BLOCK	20 mm Minimum Insertion Width	FWPLSB
WHOLE PATELLAR LIGAMENT	20 mm Minimum Insertion Width	FWPL
WHOLE PATELLAR W/EXTRA QUAD	20 mm Minimum Insertion Width Quad Length > 6.0 cm	FWPLQ

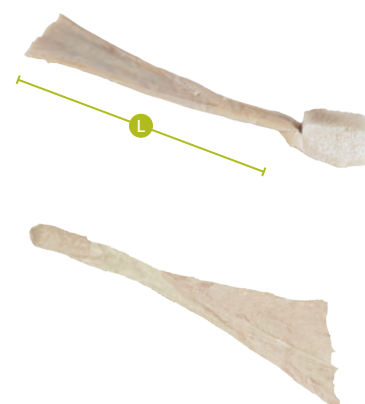
PRE-SHAPED PATELLAR	Size	Frozen
	10 mm Min. Diameter Dowel	FPL10
	11 mm Min. Diameter Dowel	FPL11



Achilles Tendons | FlexiGRAFT®

ACHILLES TENDON	Size	Frozen
W/OUT BONE BLOCK	> 160 mm	FAT
W/BONE BLOCK	> 160 mm	FATB

PRE-SHAPED ACHILLES	Size	Frozen
	10 mm Min. Diameter Dowel	FATB10
	11 mm Min. Diameter Dowel	FATB11



Tibialis Tendons | FlexiGRAFT®

	Size	Frozen
ANTERIOR TIBIALIS TENDON: Short Length	Length 170 - 225 mm Diameter 7.5 mm or >	FANT - SL
POSTERIOR TIBIALIS TENDON: Short Length	Length 170 - 225 mm Diameter 7.5 mm or >	FPOST - SL
ANTERIOR TIBIALIS TENDON	Min. Length 230 mm Min. Diameter 7.5 mm or >	FANT/TIB/T
POSTERIOR TIBIALIS TENDON	Min. Length 230 mm Min. Diameter 7.5 mm or >	FPOST.TIBIAL

Peroneus Tendons | FlexiGRAFT®

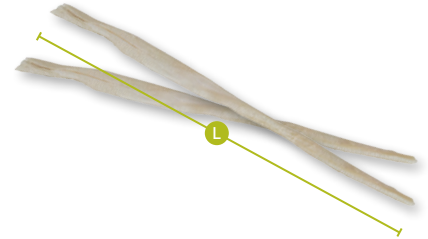
	Size	Frozen
PERONEUS LONGUS TENDON: Short Length	Length 170 - 225 mm Diameter 7.5 mm or >	FPLT - SL
PERONEUS LONGUS TENDON	Min. Length 230 mm Min. Diameter 7.5 mm or >	FPLT

Hamstrings | FlexiGRAFT®

	Size	Frozen
SEMI-TENDINOSUS TENDON	Length 150 mm or > Diameter 4 - 5.5 mm	FROPE
SEMI-TENDINOSUS TENDON OR GRACILIS TENDON	Length 160 - 180 mm; Diameter 4 - 6 mm	FSTP
GRACILIS TENDON	Length 230 mm; Diameter ≥ 4.0 mm	FGRACILIS
SEMI-TENDINOSUS TENDON	Length 230 mm; Diameter ≥ 4.0 mm	FST

Double Bundle Non-Bone Tendons | FlexiGRAFT®

	Size	Frozen
2 POST/ANT TIBIALIS (Packaged Together)	Length 170 - 220 mm; Diameter 6 - 7 mm	FDBLTEND



Meniscus | FlexiGRAFT®

	Size	Frozen
LEFT LATERAL MENISCUS	VARIES	FMN LL
LEFT MEDIAL MENISCUS	VARIES	FMN LM
RIGHT LATERAL MENISCUS	VARIES	FMN RL
RIGHT MEDIAL MENISCUS	VARIES	FMN RM



Cancellous Plugs | FlexiGRAFT®

	Diameter	Frozen
	7 mm	FCPD7
	8 mm	FCPD8
	9 mm	FCPD9
	10 mm	FCPD10
	11 mm	FCPD11



Decellularized Dermis | **Arthro**FLEX®



Reticular



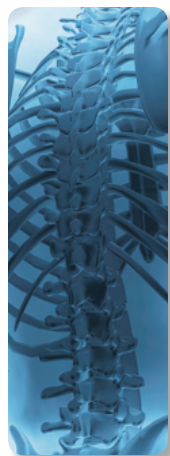
Papillary

0.5 mm (Thickness = 0.3 mm - 1.0 mm)	Size	Room Temperature
	30 x 40 mm	AFLEX500

1.0 mm (Thickness = 0.76 mm - 1.24 mm)	Size	Room Temperature
	40 x 40 mm	AFLEX400
	40 x 70 mm	AFLEX401

1.5 mm (Thickness = 1.26 mm - 1.74 mm)	Size	Room Temperature
	35 x 35 mm	AFLEX100
	40 x 70 mm	AFLEX101
	50 x 90 mm	AFLEX103
	15 x 140 mm	AFLEX150

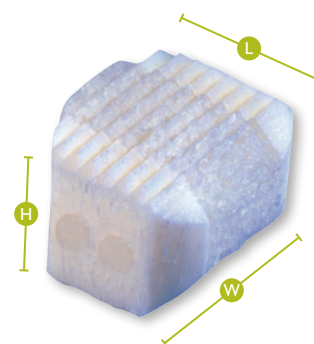
2.0 mm (Thickness = 1.76 mm - 2.24 mm)	Size	Room Temperature
	35 x 35 mm	AFLEX200
	40 x 70 mm	AFLEX201



Spine

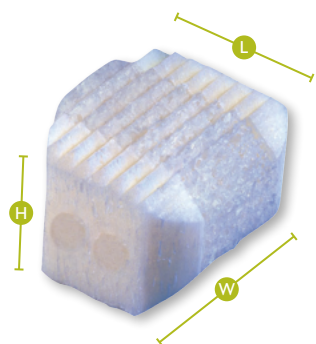
VG2® Cervical | VertiGRAFT®

7° LORDOSIS	Anterior Height	Preservon
12 mm Anterior - Posterior Length/ 14.5 mm Medial - Lateral Width	6 mm	VG2C-T46P
	7 mm	VG2C-T57P
	8 mm	VG2C-T68P
	9 mm	VG2C-T79P
	10 mm	VG2C-T810P
	11 mm	VG2C-T911P



PARALLEL	Anterior Height	Preservon
12 mm Anterior - Posterior Length/ 14.5 mm Medial - Lateral Width	6 mm	VG2 CPAR6P
	7 mm	VG2 CPAR7P
	8 mm	VG2 CPAR8P
	9 mm	VG2 CPAR9P
	10 mm	VG2 CPAR10P
	11 mm	VG2 CPAR11P

LARGE - 7° LORDOSIS	Anterior Height	Preservon
14 mm Anterior - Posterior Length/ 14.5 mm Medial - Lateral Width	6 mm	VG2C-DT6P
	7 mm	VG2C-DT7P
	8 mm	VG2C-DT8P
	9 mm	VG2C-DT9P
	10 mm	VG2C-DT10P
	11 mm	VG2C-DT11P

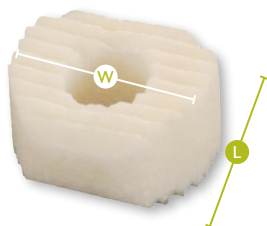


VG2® Cervical continued

LARGE PARALLEL	Anterior Height	Preservon
14 mm Anterior - Posterior Length/ 14.5 mm Medial - Lateral Width	6 mm	VG2C-DR6P
	7 mm	VG2C-DR7P
	8 mm	VG2C-DR8P
	9 mm	VG2C-DR9P
	10 mm	VG2C-DR10P
	11 mm	VG2C-DR11P

PARALLEL NARROW	Anterior Height	Preservon
	6 mm	VG2 NCPAR6P
	7 mm	VG2 NCPAR7P
	8 mm	VG2 NCPAR8P
	9 mm	VG2 NCPAR9P
	10 mm	VG2 NCPAR10P

VG1® Cervical | VertiGRAFT®

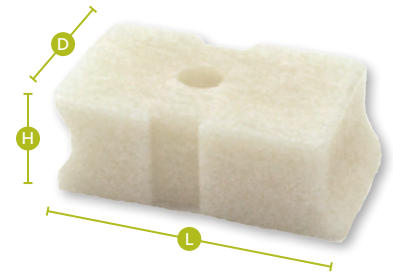


CERVICAL - 7° LORDOSIS	Anterior Height	Freeze-Dried	Preservon
12 mm Anterior - Posterior Length/ 14.5 mm Medial - Lateral Width	6 mm	VG1C-T46	VG1C-T46P
	7 mm	VG1C-T57	VG1C-T57P
	8 mm	VG1C-T68	VG1C-T68P
	9 mm	VG1C-T79	VG1C-T79P
	10 mm	VG1C-T810	VG1C-T810P

PARALLEL	Anterior Height	Preservon
12 mm Anterior - Posterior Length/ 14.5 mm Medial - Lateral Width	5 mm	VG1CPAR5P
	6 mm	VG1CPAR6P
	7 mm	VG1CPAR7P
	8 mm	VG1CPAR8P
	9 mm	VG1CPAR9P
	10 mm	VG1CPAR10P

VG1® Laminoplasty | VertiGRAFT®

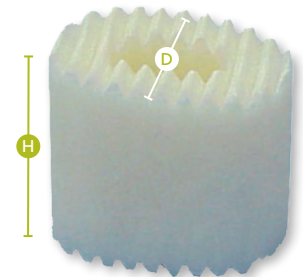
	Length	Preservon
8 mm Width/5 mm Height	4 mm	VG1 LAM4
	6 mm	VG1 LAM6
	8 mm	VG1 LAM8
	10 mm	VG1 LAM10
	12 mm	VG1 LAM12



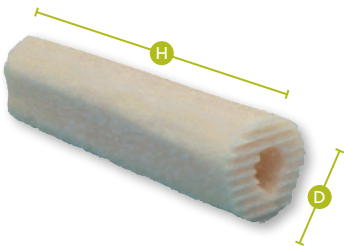
Fibular Spacer | VertiGRAFT®

LORDOTIC	Anterior Height	Freeze-Dried
8 - 15 mm Diameter	8 mm	VFIBW5
	10 mm	VFIBW7
	12 mm	VFIBW9
	14 mm	VFIBW11

PARALLEL	Anterior Height	Freeze-Dried
8 - 15 mm Diameter	5 mm	VFIBCS15
	6 mm	VFIBCS16
	7 mm	VFIBCS17
	8 mm	VFIBCS18
	9 mm	VFIBCS19
	10 mm	VFIBCS110
	12 mm	VFIBCS112
	14 mm	VFIBCS114



Fibular Spacer continued

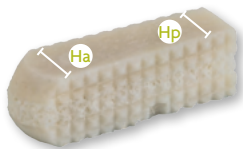


TEXTURED SHAFTS	Anterior Height	Freeze-Dried
8 - 18 mm Diameter	20 mm	VFIBS20
	30 mm	VFIBS30
	40 mm	VFIBS40
	50 mm	VFIBS50
	60 mm	VFIBS60

VG2® TLIF | VertiGRAFT®



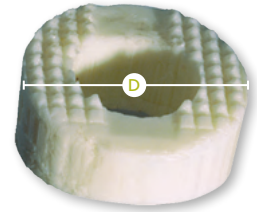
PARALLEL	Anterior Height	Frozen
9 mm Width/29 mm Length	9 mm	VG2TLIF-P9
	11 mm	VG2TLIF-P11
	13 mm	VG2TLIF-P13



5° OBLIQUE LORDOSIS	Anterior Height	Frozen
9 mm Width/29 mm Length	9 mm	VG2TLIF-L9
	11 mm	VG2TLIF-L11
	13 mm	VG2TLIF-L13

VG1® ALIF | VertiGRAFT®

ANTERIOR - 5° LORDOSIS	Anterior Height	Freeze-Dried	Preservon
23 - 27 mm Anterior - Posterior Diameter/ 23 - 30 mm Medial - Lateral Diameter	10.75 mm	VG1B-10ABP	VG1B-10AP
	12.75 mm	VG1B-12ABP	VG1B-12AP
	14.75 mm	VG1B-14ABP	VG1B-14AP
	16.75 mm	VG1B-16ABP	VG1B-16AP
	18.75 mm	VG1B-18ABP	VG1B-18AP
	20.75 mm	VG1B-20ABP	VG1B-20AP

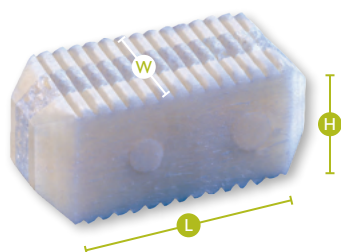


ANTERIOR LATERAL - 5° LORDOSIS	Anterior Height	Freeze-Dried	Preservon
23 - 27 mm Anterior - Posterior Diameter/ 23 - 30 mm Medial - Lateral Diameter	10.75 mm	VG1B-10ALBP	VG1B-10ALP
	12.75 mm	VG1B-12ALBP	VG1B-12ALP
	14.75 mm	VG1B-14ALBP	VG1B-14ALP
	16.75 mm	VG1B-16ALBP	VG1B-16ALP
	18.75 mm	VG1B-18ALBP	VG1B-18ALP
	20.75 mm	VG1B-20ALBP	VG1B-20ALP



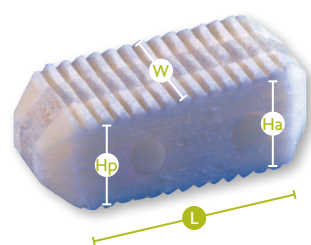
ANTERIOR - 10° LORDOSIS	Anterior Height	Preservon
23 - 27 mm Anterior - Posterior Diameter/ 23 - 30 mm Medial - Lateral Diameter	10.75 mm	VG1B-10HAP
	12.75 mm	VG1B-12HAP
	14.75 mm	VG1B-14HAP
	16.75 mm	VG1B-16HAP
	18.75 mm	VG1B-18HAP
	20.75 mm	VG1B-20HAP

Spine



VG2® PLIF | VertiGRAFT®

PARALLEL	Anterior Height	Frozen
21 mm Length	9 mm	VG2P-P9
	11 mm	VG2P-P11
	11 mm	VG2P-P11N
	13 mm	VG2P-P13
	13 mm	VG2P-P13N



5° LORDOSIS	Anterior Height	Frozen
21 mm Length	5 mm	VG2P-T57
	9 mm	VG2P-T79
	11 mm	VG2P-T911N
	11 mm	VG2P-T911W
	13 mm	VG2P-T1113N
	13 mm	VG2P-T1113W

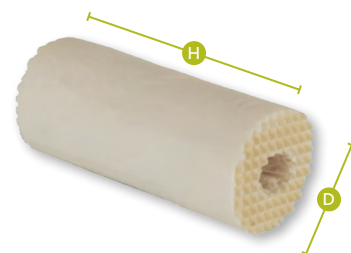
VG2® RAMP | VertiGRAFT®

8° LORDOSIS	Anterior Height	Frozen
	11 mm	VG2 RAMP911
	13 mm	VG2 RAMP913
	13 mm	VG2 RAMP1113



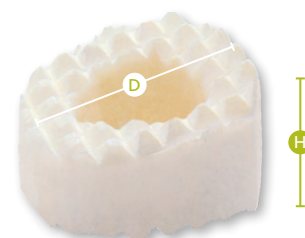
Femoral Shaft | VertiGRAFT®

	Height	Freeze-Dried
23 - 27 mm Anterior - Posterior Diameter/	30 mm	VFEMS30
23 - 30 mm Medial - Lateral Diameter	40 mm	VFEMS40
	50 mm	VFEMS50
	60 mm	VFEMS60
	70 mm	VFEMS70
	100 mm	VFEMS100

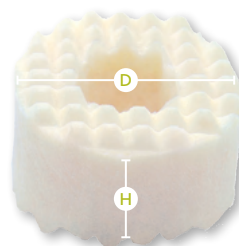


Humeral Shaft | MatriGRAFT®

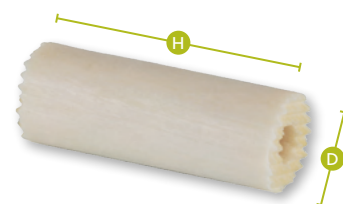
TRAPEZOID WEDGES	Anterior Height	Freeze-Dried
18 - 22 mm Diameter	14 mm	VHUMW11
	16 mm	VHUMW13
	18 mm	VHUMW15
	20 mm	VHUMW17



CROSS SECTIONS	Anterior Height	Freeze-Dried
18 - 22 mm Diameter	8 mm	VHUMCS8
	10 mm	VHUMCS10
	12 mm	VHUMCS12
	14 mm	VHUMCS14
	16 mm	VHUMCS16



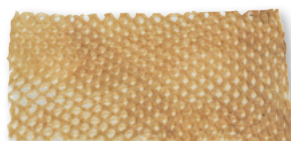
SHAFTS	Anterior Height	Freeze-Dried
18 - 22 mm Diameter	20 mm	VHUMS20
	30 mm	VHUMS30
	40 mm	VHUMS40
	50 mm	VHUMS50
	60 mm	VHUMS60





Skin and Wound*

Soft Tissue



Reticular



Papillary



Reticular



Papillary

MESHED (1.5:1)	Size	Cryopreserved
	1/8 Sq ft or 125 cm ²	SK NM
	1/6 Sq ft or 154 cm ²	SK F
	1/4 Sq ft or 232 cm ²	SK M
	1/2 Sq ft or 500 cm ²	SK HM

MESHED (2:1)	Size	Cryopreserved
	1/4 Sq ft or 232 cm ² - 1	SK Z

UNMESHED	Size	Cryopreserved
	1/8 Sq ft or 125 cm ²	SK N
	1/6 Sq ft or 154 cm ²	SK S
	1/4 Sq ft or 232 cm ²	SK P
	1/2 Sq ft or 500 cm ²	SK H

**Skin and Wound Allograft Institute must be set up as an approved vendor. All purchase orders must be made payable to Skin and Wound Allograft Institute. Checks may be made payable to Skin and Wound Allograft Institute or LifeNet Health.*

Decellularized Dermis | DermACELL® AWM™

WOUND	Size	Room Temperature
Thickness = 0.2 mm - 1.00 mm	2 x 2 cm	DCELL100
	4 x 4 cm	DCELL101

MESHED WOUND	Size	Room Temperature
Thickness = 0.5 mm - 1.00 mm	4 x 4 cm	DCELL112
	5 x 9 cm	DCELL155

WOUND	Size	Room Temperature
Thickness = 0.2 mm - 1.00 mm	5 x 7 cm	DCELL102
	6 x 7 cm	DCELL103
	4 x 8 cm	DCELL104

MESHED WOUND	Size	Room Temperature
Thickness = 0.2 mm - 1.00 mm	5 x 7 cm	DCELL152
	6 x 7 cm	DCELL153
	4 x 8 cm	DCELL154



Papillary



Reticular

Decellularized Dermis continued



Papillary



Reticular

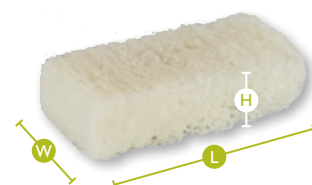
SOFT TISSUE	Size	Room Temperature
Thickness = 0.75 mm - 1.50 mm	4 x 12 cm	DCELL200
	6 x 12 cm	DCELL201
	4 x 16 cm	DCELL202
	5 x 16 cm	DCELL203
	6 x 16 cm	DCELL204
	8 x 16 cm	DCELL205
Thickness = 1.25 mm - 2.00 mm	4 x 12 cm	DCELL250
	6 x 12 cm	DCELL251
	4 x 16 cm	DCELL252
	5 x 16 cm	DCELL253
	6 x 16 cm	DCELL254
	8 x 16 cm	DCELL255



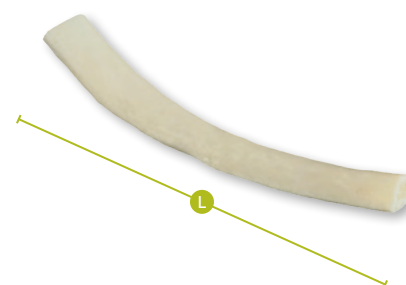
Dental / CMF

Structural | OraGRAFT®

CANCELLOUS CUBES/BLOCKS	Size	Freeze-Dried
	10 x 10 x 10 mm	CANCUBE1
	15 x 15 x 15 mm	CCUBE-01
	15 x 15 x 8 mm	CCUBE-02
	15 x 30 x 8 mm	CCUBE-03



RIB	Size	Freeze-Dried
	60 - 115 mm	RIB



ILIUM STRIPS	Size	Freeze-Dried	Preservon
	15 x 20 mm	IS SML	ISP SML
	15 x 30 mm	IS MED	ISP MED
	20 x 40 mm	IS	ISL



Mineralized Corticocancellous Particulate Mix | OraGRAFT®



	Size	Freeze-Dried
250 - 1000 microns	0.5 cc	C/CMIX-0.5
	1 cc	C/CMIX-1.0
	2 cc	C/CMIX-2.0

Cortical Demineralized Powder | OraGRAFT®



	Size	Freeze-Dried
250 - 1000 microns	0.25 cc	DGCI/20
	0.50 cc	DGCI/10
	0.70 cc	DGCI/8
	1.20 cc	DGCI/4
	2.50 cc	DGC

Cortical Mineralized Powder | OraGRAFT®



	Size	Freeze-Dried
250 - 1000 microns	0.25 cc	GCI/20
	0.50 cc	GCI/10
	0.70 cc	GCI/8
	1.20 cc	GCI/4
	2.50 cc	GC

Cancellous Mineralized Powder | OraGRAFT®

	Size	Freeze-Dried
250 - 1000 microns	0.50 cc	OCAN-0.5A
	1.00 cc	OCAN-1.0A
	2.00 cc	OCAN-2.0A
1000 - 2000 microns	0.50 cc	OCAN-0.5B
	1.00 cc	OCAN-1.0B
	2.00 cc	OCAN-2.0B



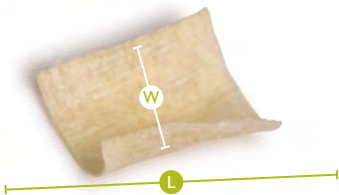
Large Particulate Grafts | OraGRAFT®

DEMINERALIZED GROUND	Size	Freeze-Dried
1 - 8 mm Cancellous	5 cc	DCAN5
1 - 4 mm Cortical	5 cc	DGC5



Soft Tissue

Perio Fascia Lata | OraGRAFT®



	Size	Freeze-Dried
	15 X 30 mm	PFL 1.5
	25 X 25 mm	PFL S
	25 X 55 mm	PFL R
	25 X 95 mm	PFL L

Decellularized Dermis | OraCELL®



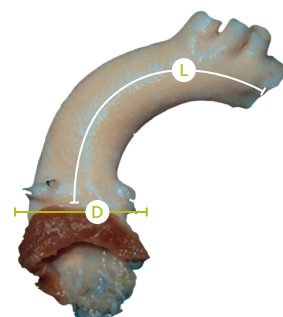
	Size	Room Temperature
Thickness = 0.76 - 1.25 mm	1.5 x 2.0 cm	OCELL100
	2.0 x 4.0 cm	OCELL101
	1.0 x 1.0 cm	OCELL 150
	1.0 x 4.0 cm	OCELL 151
Thickness = 1.26 - 1.75 mm	1.5 x 2.0 cm	OCELL200
	2.0 x 4.0 cm	OCELL201
	1.0 x 1.0 cm	OCELL 250
	1.0 x 4.0 cm	OCELL 251



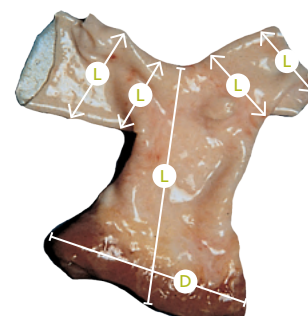
Cardiac

Valves | CardioGRAFT[®]

AORTIC HEART VALVES	Diameter	Cryopreserved
	22 mm and greater	HVA-L
	17 to 21 mm	HVA-M
	16 mm and less	HVA-S



PULMONARY HEART VALVES	Diameter	Cryopreserved
	22 mm and greater	HVP-L
	17 to 21 mm	HVP-M
	16 mm and less	HVP-S



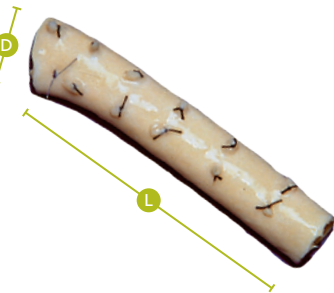
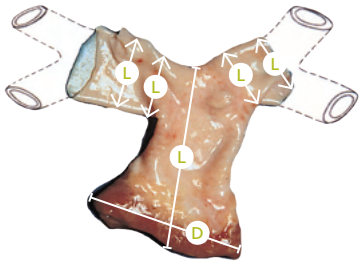
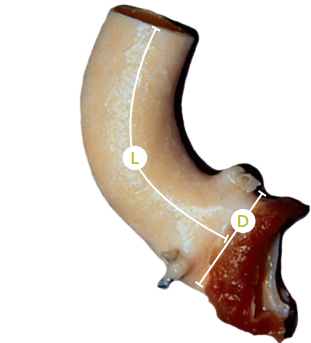
Cardiac

Conduits | CardioGRAFT®

ASCENDING AORTA (NON-VALVED)	Diameter	Cryopreserved
	22 mm and greater	AAL
	17 to 21 mm	AAM
	16 mm and less	AAS

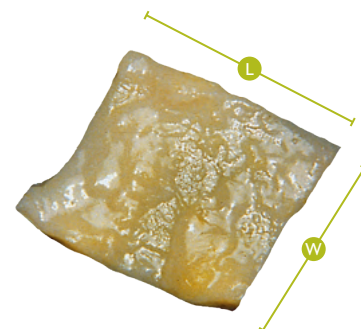
PULMONARY ARTERY (NON-VALVED)	Diameter	Cryopreserved
	22 mm and greater	PAL
	17 to 21 mm	PAM
	16 mm and less	PAS

THORACIC AORTA (NON-VALVED)	Diameter	Cryopreserved
	22 mm and greater	TAL
	17 to 21 mm	TAM
	16 mm and less	TAS

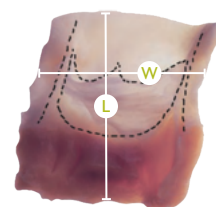


Repair | CardioGRAFT®

PULMONARY PATCH GRAFT	Size	Cryopreserved
Thick (Trunk)	W = 25 - 50 mm in 5 mm increments; L = 30 - 60 mm in 5 mm increments	PPGK
Thin (Branch)	W = 25 - 50 mm in 5 mm increments; L = 30 - 60 mm in 5 mm increments	PPGN



MONO CUSP PATCH	Size	Cryopreserved
	≥ 22 mm	MCPL



DECELLULARIZED PULMONARY PATCH GRAFT WITH MATRACELL®	Size	Cryopreserved
Thick (Trunk)	W = 25 - 50 mm in 5 mm increments; L = 30 - 60 mm in 5 mm increments	DPPGK
Thin (Branch)	W = 25 - 50 mm in 5 mm increments; L = 30 - 60 mm in 5 mm increments	DPPGN

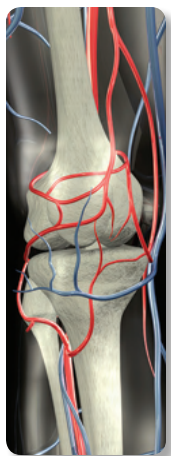


HEMI PULMONARY ARTERY	Size	Cryopreserved
Left	Varies	LHPA
Right	Varies	RHPA



DECELLULARIZED HEMI PULMONARY ARTERY WITH MATRACELL®	Size	Cryopreserved
Left	Varies	DLHPA
Right	Varies	DRHPA





Vascular

Saphenous Veins | **AngioGRAFT®**

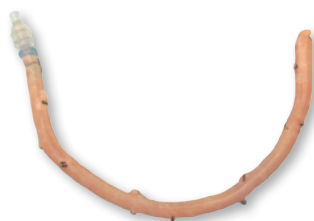


Size	Cryopreserved
L = 21 - 30 cm; D ≥ 3 mm	CV21-30
L = 31 - 45 cm; D ≥ 3 mm	CV31-45
L = 46 - 60 cm; D ≥ 3 mm	CV46-60
L = 61 - 70 cm; D ≥ 3 mm	CV61-70
L = 71 - 80 cm; D ≥ 3 mm	CV71-80
L > 80 cm; D ≥ 3 mm	CV>80

Femoral Vessels | **AngioGRAFT®**

FEMORAL VEINS	Size	Cryopreserved
	L = < 21 cm	FV<21
	L = 21 - 30 cm	FV21-30
	L = > 30 cm	FV>30

FEMORAL ARTERY	Size	Cryopreserved
	L = < 21 cm	FA<21
	L = 21 - 30 cm	FA21-30
	L = > 30 cm	FA>30



All vessels are measured by outside diameter (OD).

Ordering LifeNet Health Allograft Bio-Implants

Health care facilities, approved distributors and authorized tissue dispensing intermediaries are permitted to order allograft bio-implants from LifeNet Health. Only licensed clinical professionals may actually transplant tissue.

Orders may be placed by e-mail, phone and/or fax or e-mail at lnhinternational@lifenethealth.org. A valid purchase order number must be provided for all orders. All phone calls to LifeNet Health's Client Services department are recorded for quality control purposes.

Title to LifeNet Health products passes from LifeNet Health to the customer once the shipment leaves our facility.

Transportation of LifeNet Health Allograft Bio-Implants

All LifeNet Health Bio-Implants (except CardioGraft and AngioGraft cryopreserved) will be shipped either Fed Ex Priority or UPS Worldwide Express and customer will be charged for each shipment.

Cryopreserved CardioGraft and AngioGraft allograft bio-implants will be shipped by special courier services and a courier fee will be charge for each cryoshipper. Return of the empty cryoshipper will be handled and coordinated by LifeNet Health.

Return Policy

LifeNet Health does not allow for the return of unused allograft bio-implants. For information about returning damaged allograft tissue, please contact LifeNet Client Health Services at 1-757-464-4761 ext 2000.

Payment Terms and Conditions

Payments are due prior to shipment unless otherwise stated. Payments are due in US dollar only. Allowable forms of payment are: Visa/Master Card, or wire transfer. Account statements are sent monthly to all accounts as a reminder of outstanding payments due. For any payment questions or information please call 1-757-464-4761 ext. 4444 or e-mail at: accountsreceivable@lifenethealth.org

This reference manual should not be considered as an approval of products in every country. It is recommended that you verify product approval or registration status for your country with Client Services prior to placing an order.

Please Mail All Payments To:

LifeNet Health
P.O. Box 79636
Baltimore, MD 21279-0636

LifeNet Health Vendor Information

Company:
LifeNet Health, Inc.
Address: 1864 Concert Drive Virginia Beach, VA 23453

Phone: 888-847-7831 (US & Canada)
757-464-4761 ext. 2000 (OUS)

Fax: 888-847-7832 (US & Canada)
757-301-6579 (OUS)

Email: lnhinternational@lifenethealth.org

Summary Of LifeNet Health Accreditations/ Certifications

- ✓ AATB ACCREDITATION
- ✓ FDA REGISTRATION
- ✓ UNOS MEMBER
- ✓ AOPO MEMBER
- ✓ ISO 13485 CERTIFIED
- ✓ CLIA CERTIFIED
- ✓ LICENSED IN REQUIRED STATES
- ✓ HEALTH CANADA CTO 10038



LifeNet Health helps to save lives and restore health for thousands of patients each year. We are the world's most trusted provider of transplant solutions, from organ procurement to new innovations in bio-implant technologies and cellular therapies—a leader in the field of regenerative medicine, while always honoring the donors and healthcare professionals that allow the healing process.

1864 Concert Drive
Virginia Beach, VA 23453
757-464-4761 ext. 2000 (OUS)
888-847-7831 (US & Canada)

www.AccessLifeNetHealth.org

The LifeNet Health logo is a registered trademark of LifeNet Health, Inc. VertiGraft is a registered trademark of DePuy Spine. Allowash, Allowash XG, AngioGraft, ArthroFlex, CardioGraft, FlexiGraft, MatriGraft, OsteoCleanse, Oracell, OraGraft, Readigraft, PAD, Matracell, and Preservon are registered trademarks of LifeNet Health, Inc., Virginia Beach, VA.

©2014 LifeNet Health. All rights reserved.

68-00-013-01 .01

