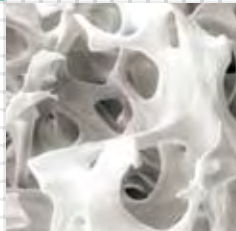


NOVOMEDICS

MODERNE MEDIZINTECHNIK



ALLOGENIC Grafts



| IN COMPLIANCE WITH HEALTH |



As a pharmaceutical and medical device company and an innovative producer of regenerative tissue and bone grafts we at TUTOGEN have clearly defined goals for patient care:

To restore health and improve the quality of life.

TUTOGEN MEDICAL GmbH is headquartered in Neunkirchen am Brand, Franconia, Germany and today is one of the world's leading providers of grafts. In 2008, TUTOGEN expanded its reach by becoming part of the American RTI Biologics, Inc. group.



| INNOVATION AND COMPETENCE FOR OVER 40 YEARS |

Our focus on innovation is the key to our leadership position in the tissue processing market. We employ all our know-how and innovative strengths to produce unique products that help heal patients and improve their quality of life. Flexibility and tending to special wishes are just as important to us as producing our standard products with the utmost quality to best serve our existing customers and their patients.

TUTOGEN products carry results from over 2.3 million grafts and more than 40 years of experience. All allogenic products fall under the German Pharmaceutical Products Act and are subject to regular government inspections and stringent in-house quality controls. Our products meet all safety and performance requirements.

Our success as a global player is thanks to consistently high levels of integrity, trust, respect and compliance with relevant laws. A code of behavior that defines our high standards and an ethical business policy are integrated throughout the internal and external processes at TUTOGEN. These high standards are evident in our responsible interactions with all outside parties including our suppliers, customers, and regulatory authorities.



| THE TUTOPLAST®-PROCESS |



The Tutoplast® process is a unique multiple-step preservation and sterilization process for connective and supporting tissue which removes the antigenic properties of the tissue. Pathogens become inactivated without changing the structure, biomechanics, or convertibility of the tissue.

All allogenic products of TUTOGEN have the following outstanding properties:

- Tutoplast® processed
- Sterile
- Antigen-free and cell-free
- Biocompatible
- Completely convertible
- Dry packaged products can be stored for max. 5 years at room temperature
- Quality "Made in Germany"



TUTOPLAST® | A GIFT FOR HEALTH |

The unique Tutoplast® process was developed in 1969 and can now look back on a very successful history. The patented process was one of the first for cleaning, preserving and sterilizing donor tissue. Now Tutoplast® is recognised throughout the world as a production process that meets all the requirements for the preservation of tissue and elimination or inactivation of all known contagious pathogens.

Despite the process, the natural properties of the tissue are retained, and the remodelling ability of the products are not affected.

The effectiveness and safety of Tutoplast® processed products have been documented in numerous studies.

The complete production process is performed in a controlled clean room environment and is subject to ongoing quality control. In Germany, surveillance of Good Manufacturing Practice (GMP) is maintained by the ZAB Bavaria and the Paul Ehrlich Institute.

Internationally TUTOGEN grafts are inspected by the appropriate health authorities (the American „FDA“ and the French „ANSM“, for example) and are registered and authorized in many countries throughout the world.



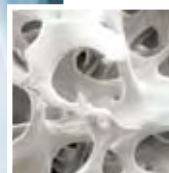
ALLOGENIC GRAFTS

ORTHOPEDICS

Bone grafting is usually necessary when there is a significant loss of healthy bone substance. This might be necessary, for example, after a serious injury or a tumor operation, or when an artificial joint is implanted. The general practice is to remove a patient's own bone material in a second operation. However, this procedure adversely affects and stresses the patient unnecessarily and weakens the healthy structures in the patient's body.

With its allogenic bone tissue, TUTOGEN offers a safe, well-tolerated and high-quality alternative to autologous bone transplants or synthetic bone substitutes.

Tutoplast® Spongiosa is licensed under 53968.00.00.



ALLOGENIC CANCELLOUS BONE

TUTOPLAST® Cancellous Chips		UpP
68123	ø 4 mm - 10 mm 30 cm ³	1
68134	ø 4 mm - 10 mm 15 cm ³	1



TUTOPLAST® Cancellous Particles		UpP
L10317	ø 1 mm - 10 mm 15 cm ³	1
L10316	ø 1 mm - 10 mm 10 cm ³	1
L10315	ø 1 mm - 10 mm 5 cm ³	1
68146	ø 2 mm - 4 mm 15 cm ³	1
68067	ø 2 mm - 4 mm 3 cm ³	1
68158	ø 1 mm - 2 mm 3 cm ³	1



SPECIAL PRODUCTS | ON REQUEST ONLY

TUTOPLAST® Cancellous Particles		UpP
68197	ø 1 mm - 2 mm 2 cm ³	1
68196	ø 1 mm - 2 mm 1 cm ³	1
68195	ø 1 mm - 2 mm 0,5 cm ³	1



ALLOGENIC CANCELLOUS BONE



TUTOPLAST® Cancellous		UpP
68095	Hemisphere (½ femoral head)	1



TUTOPLAST® Cancellous Block		UpP
68122	30 mm x 30 mm x 12 mm	1
68121	20 mm x 30 mm x 12 mm	1
68127	10 mm x 10 mm x 30 mm	1
68120	10 mm x 10 mm x 20 mm	1



SPECIAL PRODUCTS | ON REQUEST ONLY

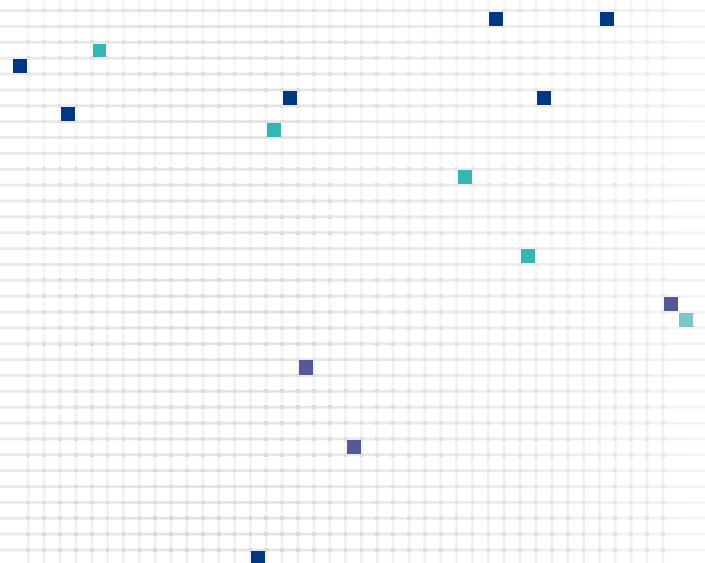
TUTOPLAST® Cancellous Dowel		UpP
68162	∅ 16 mm L 16 mm	1
68161	∅ 14 mm L 16 mm	1
68160	∅ 12 mm L 16 mm	1

ALLOGENIC CORTICO-CANCELLOUS BONE

TUTOPLAST® Iliac Crest Wedge		UpP
68115	40 mm x 25 mm x ≥ 5 mm	1
68118	20 mm x 25 mm x ≥ 5 mm	1
68124	16 mm x 25 mm x ≥ 5 mm	1
68126	13 mm x 30 mm x ≥ 5 mm	1
68152	12 mm x 25 mm x ≥ 5 mm	1
68165	10 mm x 25 mm x ≥ 5 mm	1



TUTOPLAST® Patella Block		UpP
68129	12 mm x 12 mm x 20 mm	1



ALLOGENIC CORTICO-CANCELLOUS BONE

SPECIAL PRODUCTS | ON REQUEST ONLY



TUTOPLAST® Cortico Cancellous Chips		UpP
68205	Ø 4 mm - 10 mm > 45 cm ³	1
68154	Ø 4 mm - 10 mm 60 cm ³	1
68148	Ø 4 mm - 10 mm 30 cm ³	1
68110	Ø 4 mm - 10 mm 15 cm ³	1



TUTOPLAST® Cortico Cancellous Particles		UpP
68119	Ø 2 mm - 4 mm 30 cm ³	1
68147	Ø 2 mm - 4 mm 15 cm ³	1



TUTOPLAST® Patella Block		UpP
68145	≥28 mm x ≥16 mm x 16 mm	1



TUTOPLAST® Patella Dowel		UpP
68142	Ø 16 mm L 16 mm	1
68141	Ø 14 mm L 16 mm	1
68140	Ø 12 mm L 16 mm	1

ALLOGENIC CORTICAL BONE

TUTOPLAST® Femur Shaft		UpP
68182	100 mm	1
68181	70 mm	1

TUTOPLAST® Fibula Shaft		UpP
68155	100 mm	1
68136	70 mm	1
68107	50 mm	1
68116	40 mm	1
68137	12 mm	1
68135	10 mm	1

TUTOPLAST® Ulna Shaft		UpP
68510	40 mm	1

TUTOPLAST® Radius Shaft		UpP
68501	50 mm	1

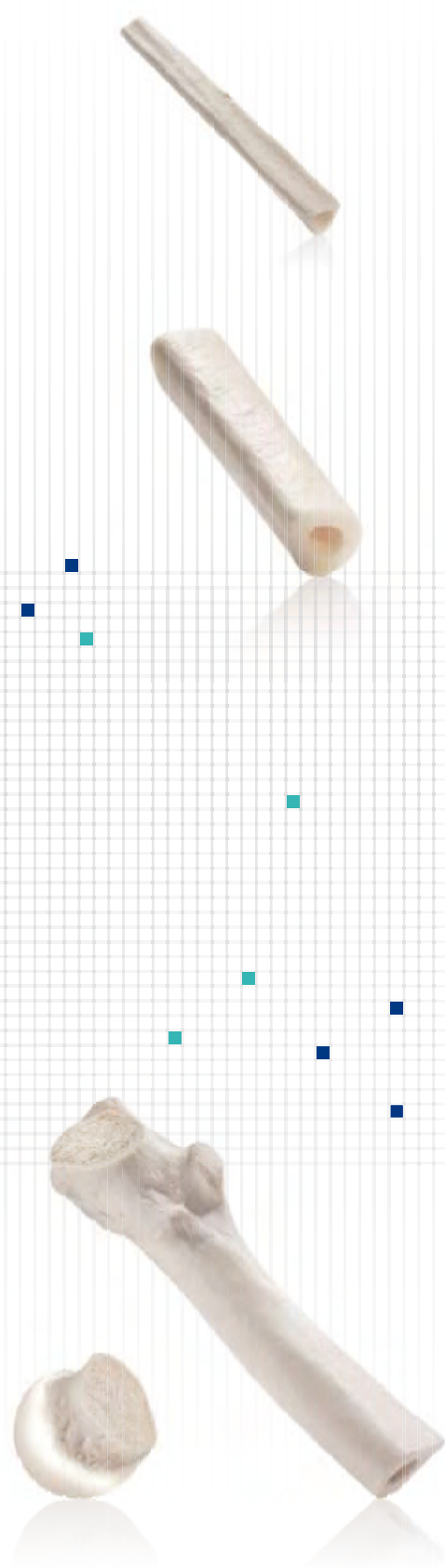
SPECIAL PRODUCTS | ORDER ON REQUEST ONLY

TUTOPLAST® Femur Shaft		UpP
68098	150 mm	1
68180	50 mm	1
68179	30 mm	1
68178	15 mm	1



ALLOGENIC CORTICAL BONE

SPECIAL PRODUCTS | ON REQUEST ONLY



TUTOPLAST® Fibula Shaft		UpP
68185	6 mm	1

TUTOPLAST® Radius Shaft		UpP
68500	40 mm	1

TUTOPLAST® Femur Proximal		UpP
68191	180 mm	1

TUTOPLAST® Femur Distal		UpP
68101	180 mm	1

TUTOPLAST® Tibia Proximal		UpP
68184	150 mm	1

TUTOPLAST® Humerus Proximal		UpP
68096	180 mm	1

TUTOPLAST® Cortical Particles		UpP
68149	Ø 2 mm - 4 mm 15 cm ³	1

ALLOGENIC TENDON

TUTOPLAST® BTB		UpP
68241	12 mm x 90 mm	1
68240	12 mm x 80 mm	1

TUTOPLAST® ATT		UpP
68269	220 mm	1
68243	200 mm	1

SPECIAL PRODUCTS | ON REQUEST ONLY

TUTOPLAST® BTB		UpP
68242	12 mm x 105 mm	1

TUTOPLAST® ATT		UpP
68068	180 mm	1
68156	160 mm	1

TUTOPLAST® ACT		UpP
68263	Tendon ≥ 190 mm Bone Block 20 mm x 15 mm x 15 mm	1



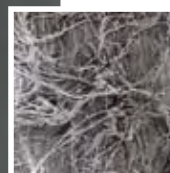


ALLOGENIC GRAFTS SURGERY

We offer replacement tissue in the form of membranes and bones for different types of surgery. These grafts contribute toward the rapid anatomical and physiological restoration of tissue defects in patients.

In particular, grafts of allogenic origin come closest to autogenous tissue in their compatibility, convertibility, elasticity, tear-resistance and handling, and are therefore a recommendable alternative.

Tutoplast® Ossicula auditus is licensed under PEI.H. 03365.01.1 and Tutoplast® Fascia Lata is licensed under 4159.00.00.



ALLOGENIC MEMBRANE

TUTOPLAST® Fascia Lata		UpP
68031	80 mm x 200 mm	1
68019	60 mm x 120 mm	1
68045	60 mm x 80 mm	1
68044	40 mm x 100 mm	1
68018	40 mm x 70 mm	1
68014	40 mm x 50 mm	1
68089	30 mm x 60 mm	1
68024	30 mm x 40 mm	1
68029	20 mm x 200 mm	1
68021	20 mm x 140 mm	1
68023	20 mm x 30 mm	1
68091	15 mm x 60 mm	1
68741	15 mm x 60 mm (Thickness > 0.9 mm)	1
68740	15 mm x 60 mm (Thickness < 0.9 mm)	1
68048	10 mm x 140 mm	1
68035	3 mm x 120 mm	1
68036	Ø 14 mm	1



SURGERY

SPECIAL PRODUCTS | ON REQUEST ONLY

TUTOPLAST® Fascia Lata		UpP
68057	20 mm x 70 mm	1
68054	15 mm x 300 mm	1



ALLOGENIC MEMBRANE



TUTOPLAST® Fascia Temporalis		UpP
68055	Ø 20 mm	1
68063	Ø 10 mm	1
68056	20 mm x 30 mm	1
68064	10 mm x 25 mm (one side round edges)	1



TUTOPLAST® Pericardium		UpP
68254	60 mm x 120 mm	1
68256	60 mm x 80 mm	1
68252	40 mm x 50 mm	1
68251	20 mm x 30 mm	1
68250	15 mm x 15 mm	1



SPECIAL PRODUCTS | ON REQUEST ONLY

TUTOPLAST® Dermis		UpP
68234	40 mm x 70 mm	1
68232	20 mm x 40 mm	1

TUTOPLAST® Dermis rounded edges		UpP
68239	50 mm x 80 mm	1

ALLOGENIC BONE & CARTILAGE

TUTOPLAST® Ossicula auditus		UpP
68050	Malleus	1
68051	Incus	1



TUTOPLAST® Cartilage		UpP
68177	40 mm (-10 mm /+20 mm)	1





| MADE IN GERMANY |

In these times of global competition and plagiarism in the medical sector, TUTOGEN continues to manufacture its products in Neunkirchen am Brand, in the heart of the Franconian „medical valley“ of the metropolitan region of Nuremberg/Erlangen, Germany.

This ensures consistently high quality products, provides transparency of the product origin and guarantees that all regulatory and medical requirements are upheld. Our allogenic products rightly carry the label synonymous with high quality:

**MADE
IN
GERMANY**



| QUALITY AND SAFETY GENERATE TRUST |

Based on more than 40 years of experience, products from TUTOGEN are fully proven and approved and used throughout the world. We ensure the quality of our products from the approval of our pharmaceuticals all the way to the delivery to the patients.

On the one hand, we strictly comply with all statutory regulations of the German Pharmaceutical Products Act as well as international standards. On the other hand, our products are subject to continuous quality controls and inspections.

Each one of our grafts can be traced back to the individual donor via its coding and associated documentation. The possibility of pooling of human donor tissue and cross-contamination are excluded from our processing steps. In the entire history of the company, there has not been one case of transmittance of disease.

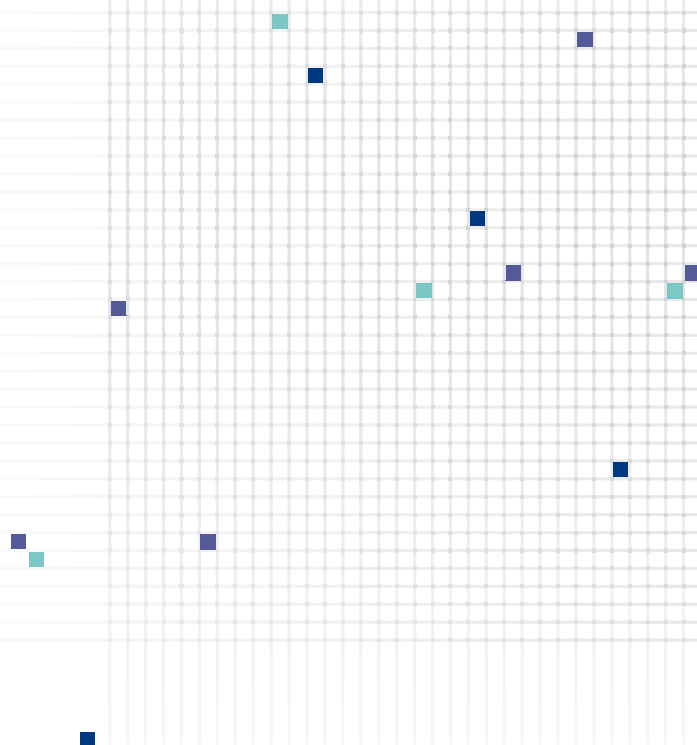
Furthermore, we produce grafts exclusively in Germany, which ensures high standards of quality and generates trust in doctors and patients alike.

One of our fundamental principles is "no experiments", because we feel responsible and committed to the recovery and health of patients. This is why our products are and will continue to be genuine originals – made in Germany.



For international distribution only

ALLOGENIC Grafts



NOVOMEDICS
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