

How to contact TBF :

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48h

Easy to use: rehydrate the freeze-dried PHOENIX allograft with saline solution

**2**



**Easy to use**

Please visit us:  
[www.tbf-lab.com](http://www.tbf-lab.com)



#### Bibliographic References

- PERRIAT M., CHAVRIER C., Implant bone reconstruction using allogenic bone grafts, Implant 2000, vol 6, N°3:187-197.
- PERRIAT M., CHAVRIER C., Sub-sinus filling-in by the technique of partition with an allogenic cortical bone graft, Implant 2002, vol 8, N°2:93-108.
- PERRIAT M., MEDARD C., CHAVRIER C., Research on a less invasive implant surgery on a complex case of maxillary teeth missing, 1st part: pre-implant surgical phase, Implant 2004, vol 10, N°2:101-113.

**PHOENIX**  
ALLOGRAFT



#### Powder granulometry 0.2 to 1.6 mm

Indication: socket, sinus, ridge expansion...

100% Mineralized cancellous PHOENIX bone powder

Ref.	Volume
D905	0,5 cc
D910	1 cc
D920	2 cc
D940	4 cc



#### Blocks

Indication: sinus, augmentation, defect, ...

100% Mineralized dense cancellous PHOENIX bone blocks

Ref.	Size
T04	20x20x10 mm
S03	30x10x10 mm



#### Chips

Indication: sinus, defect, ...

100% Mineralized cancellous PHOENIX bone chips

Ref.	Volume
BS02 ( < 3mm)	5 cc

#### Lamella

Indication: ridge augmentation



PHOENIX cortico-spongius bone block

Ref.	Size
DL15	15x10x5 mm



Packaged in sterile double-bags

**TBF**

TISSUE ENGINEERING



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Allograft for bone void filling  
and guided bone regeneration

**Unique and highly secured  
PHOENIX process,  
efficient since 1992**

ALLOGRAFT  
**PHOENIX**

**agraft**  
you can TRUST



**100% spongius bone powder  
for utmost reconstruction  
and fast osseointegration**



Healing and bone volume stability  
at 6 months

**TBF**

TISSUE ENGINEERING





**PHOENIX Bone graft origin:**  
- live and consenting donors  
- femoral head: ie. the main source of spongy bone, for better osteoconduction

**Because since 1992,  
over 120,000 grafts  
have been implanted**

**PHOENIX  
PROCESS**

#### CLINICAL AND BIOLOGICAL SCREENING

#### VIRUSES AND PRIONS INACTIVATION

PHOENIX grafts proceeding from femoral heads collected on living donors during hip arthroplasty surgeries by more than 160 trained partnering hospitals

Full compliance with the Tissue Good Practices related to transportation, transformation and preservation

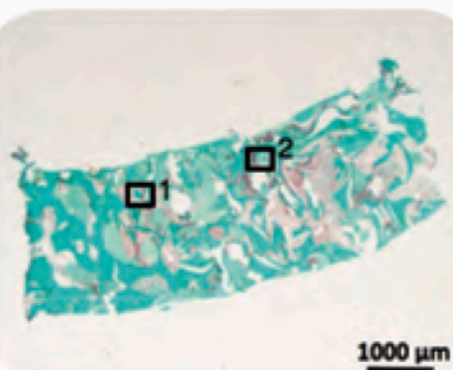
#### FREEZE-DRYING

Allows storage at room temperature associated with a 5-year shelf life

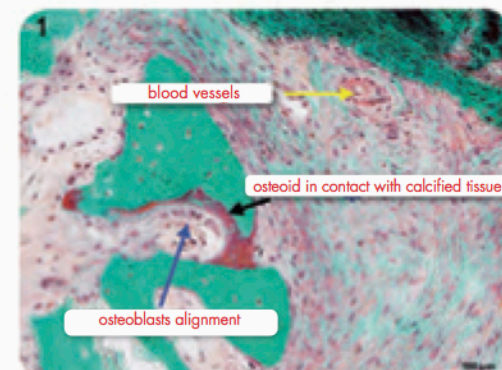
Process including mechanical and chemical treatments  
3 viro-inactivation steps validated by Pasteur Texcell Institute  
Total inactivation of non conventional transmissible agents (prions) using sodium hypochlorite (highest safety level recommended by the WHO and the ANSM – French MOH)

#### RADIOSTERILIZATION

Gamma sterilization 25-32 kGy validated according to ISO 11137 standard



Histology on a biopsy at 5 months after sinus grafting – using PHOENIX bone powder



**48% MINERALIZATION** – implant loaded after 2 months osseointegration



**Because results  
can be seen**

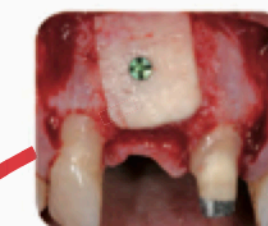
To see other clinical cases,  
visit: [www.tbf-lab.com](http://www.tbf-lab.com)

**Because a 100% cancellous  
bone integrates better**

**safe**

**Horizontal ridge augmentation – Implant placement at 4 months – Dr DUFFORT, Lyon, France**

Use of a PHOENIX cortico-spongyous lamella: reference DL15



Screwed cortico-spongyous lamella



Reopening and implant placement at 4 months

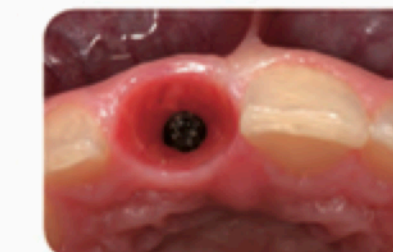
Restored interdental papillae and resulting emergence profile

**Peri implant socket remodeling - Dr DUFFORT, Lyon, France**

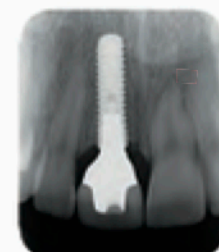
Use of 0.5 cc of PHOENIX cancellous powder: reference D905



Extraction and immediate implant insertion, bone filling, connective tissue graft and immediate aesthetics



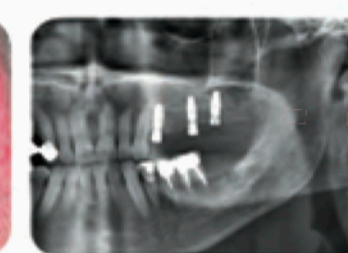
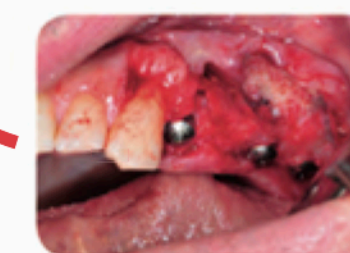
Healing and bone volume stability at 6 months



Postoperative X-ray at 1 year

**Sinus floor elevation, immediate implant – Dr ROCHE, Saint Laurent du Var, France**

Use of 2 cc + 1 cc of PHOENIX cancellous powder: reference D920 + D910



Bone graft placement and immediate implant

Postoperative X-ray at 4 months: full osseointegration and restored thickness

**Sinus floor elevation – Implant at 5 months – Dr DUFFORT, Lyon, France**

Use of 2 cc of PHOENIX cancellous powder: reference D920



Lateral window opening and sinus membrane lift



Hydratation in saline solution of the PHOENIX bone powder



Sinus filling



More than 120,000 implanted grafts  
Femoral heads from screened live donors  
20-year validated PHOENIX process: virus, bacteria and prions inactivation



Macro and micro physiological porosity of human cancellous bone  
Optimum osteoconduction  
Fast osseointegration



The largest cancellous bone stock available from the first Tissue Bank of France  
Room temperature storage and 5-year shelf time  
Natural elasticity due to the preserved allogenic collagen

**ALLOGRAFT  
PHOENIX**



Since 1992, the PHOENIX process remains unchanged, controlled and reproducible. It is validated by the CRNS – French National Center for Scientific Research and by the Pasteur Texcell institute

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you can TRUST**