BONE ALBUMIN

Premium bone grafts from Austria
BoneAlbumin is the optimal bone graft which is taking full use of the latest research in regenerative medicine but doing so without the complexities of cell therapy or growth factors. Serum albumin is long known to be an essential element in stem cell culture and we harness this potential for therapeutic use. A human bone allograft is enhanced with a layer of serum albumin, which - after implantation - provides an optimal milieu for bone marrow derived stem cells. This was shown to result in faster and stronger bone formation.
“Science is the acceptance of what works and the rejection of what does not. That needs more courage than we might think.”

JACOB BRONOWSKI
How does it work?

**GRAFT IMPLANTATION**
Mixing BoneAlbumin with a drop of blood results an easily shapeable paste. The graft can be applied with a Volkmann-spoon, it can be compressed and be mixed with autogenous bone.

**STEM CELLS**
Human bone graft is an ideal scaffold in terms of morphology and components. In addition, stem cells are induced from bone marrow and bone regeneration is facilitated due to the albumin coating.
REMODELING
Bone albumin fills the bone defect during it’s slow degradation, then the newly formed bone takes it’s place.

NEW BONE
After graft integration and remodeling, the regenerated bone has excellent strength and stiffness, which make it loadable and safe base to implantation.
ELECTRON MICROSCOPIC studies have shown that stem cells adhere and proliferate on the surface of the BoneAlbumin, while cells were hardly detectable on bovine bone graft or ceramics.

DUE TO ANIMAL STUDIES, albumin coating accelerated the integration of the graft. In addition, it resulted in more resistant bone to fractures with higher density.
IN ORTHOPEDY,
BoneAlbumin has been used for healing great bone defects since 2010. Several licensed studies proved it's safety and efficiency.

DOUBLE-BLIND
human oral surgeon studies evinced that BoneAlbumin results better integration into the human body comparing to BioOss when they were used for socket preservation.

LEARN MORE www.orthosera.com
OrthoSera develops regenerative medicine solutions by using the therapeutic power of serum.

Extensive preclinical research ensures that our products maximise the proliferative effect of blood serum proteins, while clinical research fine-tunes the products to meet the demands of surgeons in specific indications.

Simplicity and user-friendliness are hardwired into our development processes from the beginning, so our products prove that regenerative medicine can be easy to use even in busy practices.