



DENTISTRY



*COLLAGEN-PRESERVED
EQUINE BONE AND
ANORGANIC BOVINE BONE.
WHICH DIFFERENCES?*

BIOTECK ACADEMY SCIENTIFIC BULLETIN

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A retrospective clinical study shows the histological differences in socket preservation and analyze the physicochemical features.

Today we propose an interesting article published in the Dentistry Journal that compares the regenerative and chemical/physical properties of **collagen-preserved equine bone (Osteoxenon®)** with those of

anorganic bovine bone (ABB).

While **Osteoxenon®** is produced with the Zymo-Teck® enzymatic process that preserves collagen in its native form, ABB is produced by a high-temperature heat treatment that removes the collagen component and alters the mineral component.

The regenerative performance of the two biomaterials was evaluated histologically in 46 patients in whom socket preservation surgery was performed.

The physical/chemical characterization was performed by infrared spectroscopy and protein identification by SDS-PAGE technique.

The results demonstrated the presence of preserved collagen in Osteoxenon® and how this allows to obtain a statistically higher percentage of newly formed bone...

[Download the full paper](#)

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