Histopathological Report

Customer: Dentack Ltd.
Date: July 16, 2007
Specimens: 4 rabbit tibiae containing "Dentack Implants"

Specimen description
4 proximal tibial segments, each including the metaphysis with a "Dentack" implant in a horizontal orientation.

Procedure
- Implants were inserted by Dentack into adult rabbit tibiae in vivo.
- 3 implants were expanded by Dentack immediately after insertion. One implant remained unexpanded.
- The implant containing specimens were separated from the animals by Dentack 6 weeks post-operatively.
- The specimens were decalcified and the implants removed after completion of the decalcification.

- The decalcified tissue was embedded in paraplast. 7 μm thick sections were prepared from 2 cross sectional planes corresponding to the expandable part of the implant (identified as a void space in the histological section). The sections were stained by hematoxyline and eosin.

Results
- When separating the implants, some decalcified tissue remained adherent to the implant surface.
- Microscopic examination of the histological sections revealed intact tissues (bone, bone marrow and fibrous connective tissue) free of any pathological signs.
- Specifically, inflammation or necrosis were entirely absent from the examined sections.

Professor Itai Bab
Director, Bone Laboratory