



Reference No: BB 147

Date: 30/01/2018

### Test report

Tests for local effects after implantation of BIONIC dental implant

#### Summary:

This *in vivo* test method according to ISO 10993 -6 Annex D "Test method for implantation in bone" is used for assessing the biological response of bone tissue to an implanted material. The implantation site in cancellous ("spongy") or dense compact bone should be selected according to the end use of the material.

Under the condition of this study, The local effects after implantation in osseointegration evaluated with histopathology and X-Ray studies.

#### Materials

##### Test system

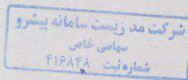
Species	Rabbit
Strain	New Zealand
Source	Razi institute
Sex	Male
Body weight	1.5 kg.
Number of animal	12

#### Methods:

The animals divided to 4 groups(n=3). Under deep anesthesia, two BIONIC dental implant and one commercial, implanted in diaphysis part of right femur. 3, 5, 9 and 12 weeks post surgery, the femur harvested and x-ray taken in anterior and lateral view. Harvested femur decalcified and after gently removing the implants, tissue processing, and quantitative histological evaluations are provided by Hematoxylin/Eosine and assessed by light microscopy.

#### Conclusion:

The purpose of this study is to investigating the details of newly formed bone around the dental implants. The local effects after implantation osseointegration of BIONIC dental implant confirm by this study.



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