

Certificate

Biocompatibility Test

Material tested: **BegoStar® LFC**
Dental alloy for metal-ceramic restorations, ISO 9693 (ISO 22674, Type 4)

**Composition/
in % by weight:**

Ag 58.9	Pd 35.0	Zn 4.0	Sn 1.0	Zr <1.0	Au <1.0	Ru <1.0
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Manufacturer: **BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG**
Technologiepark Universität · Wilhelm-Herbst-Str. 1 · 28359 Bremen, Germany

Tests: We confirm that the following tests for determining the biocompatibility of the dental alloy were carried out in accordance with the international standards DIN EN ISO 10993: 1992, "Biological evaluation of medical devices" (DIN EN ISO 10993-1, DIN EN ISO 10993-2, ISO 10993-5, DIN EN ISO 10993-10, DIN EN ISO 10993-12) and DIN EN ISO 7405: 1998, "Dentistry – Preclinical evaluation of biocompatibility of medical devices used in dentistry – Test methods for dental materials". The tests were performed according to the OECD code "Good Laboratory Practice" (GLP) by the Institute BSL Bioservice Scientific Laboratories. The tests were coordinated and monitored by Dr. Henning + Co. The specimens were produced by lost wax casting procedure by a commercial dental laboratory, according to the instructions of the manufacturer BEGO Bremer Goldschlägerei.

Cytotoxicity:

The cytotoxic potential of the dental alloy was tested in vitro with L-929 fibroblasts. Method: "Tests on extracts", XTT staining, ISO 10993-5, DIN EN ISO 10993-12 and DIN EN ISO 7405: 1998, (5.4.a)3).

Test result: **BegoStar® LFC had no cytotoxic potential.**

Allergic sensitization:

The allergic sensitization was tested with the Magnusson-Kligman-Test, DIN EN ISO 10993-10: 1995, (6.3) "Tests for irritation and sensitization", DIN EN ISO 7405: 1998 (5.4.b)5), OECD 406-92 and Directive 92/69 EEC, B.6.

Test result: **BegoStar® LFC did not cause allergic sensitization.**

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