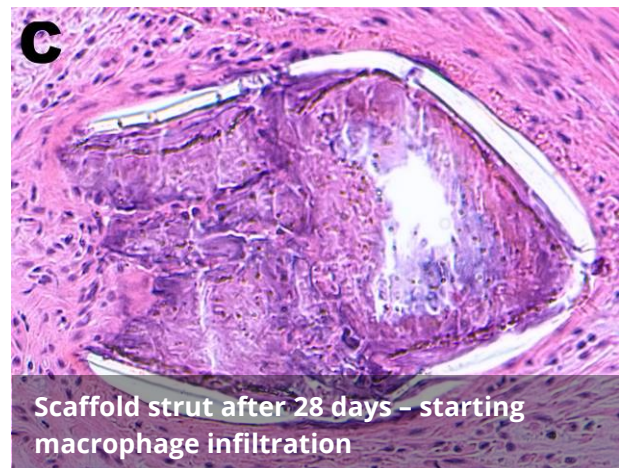# Study Confirms Functionality of the Magnesium Alloy RESOLOY®

Degradation time can be adjusted by coatings

Sarstedt, Friday, March 26, 2021

Extensive *in vitro* and *in vivo* tests have been performed for a scientific study on the degradation of vascular scaffolds (bioresorbable stents) made from the RESOLOY® magnesium alloy.

The results confirm that the degradation time of RESOLOY® can be adjusted thanks to a double coating of fluoride and polymers. A significantly slower degradation is achieved *in vitro* compared to the Magmaris®.

Scaffold strut after 28 days – starting macrophage infiltration

An additional advantage is that RESOLOY® degrades with no residue. The animal tests confirm the *in vitro* results from the test laboratory and demonstrate that RESOLOY® is highly biocompatible. The results of the published study demonstrate the high degree of safety and efficacy of the alloy.

The study was published on January 1, 2021 by the scientific publisher John Wiley & Sons.[1]

After more than 15 years of development, the unique RESOLOY® alloy is ready for implants. MeKo manufactures scaffolds and other implants, which completely dissolve in the body when the healing is done. The first customer products are in the test phase.

For further information, please visit our website: **www.MeKo.de/RESOLOY**.

[1] https://onlinelibrary.wiley.com/doi/abs/10.1002/jbm.b.34790

www.MeKo.de

MeKo Laser Material Processing

MeKo is a global ISO-certified contract manufacturer specialized in laser material processing for the medical industry. The company has 30 years of experience, particularly in the field of laser cutting of stents, heart valve frames and other medical products made of metal (NiTi, 316LVM, L605) or bioresorbable materials (Mg, polymers). MeKo offers a variety of post-processes such as mechanical workmanship, annealing and electro-polishing.

Owner: Dr.-Ing. Dipl.-Ök. Clemens Meyer-Kobbe
Foundation: 1991
Employees: More than 200

www.MeKo.de

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All images: MeKo Laser Material Processing

MeKo CEO
Dr.-Ing. Dipl.-Ök. Clemens Meyer-Kobbe

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