

Biodegradable Wire Implant

Abstract

The invention relates to a wire implant, in particular for wire osteosynthesis, and a corresponding method for its production. The wire implant has been subjected to a heat treatment, wherein the wire implant consists of a biocompatible, biocorrosion-resistant magnesium alloy, which is composed of metallic magnesium of at least 80 wt.%, a zinc proportion of 0.1 to 2.0 wt.%, a zirconium proportion of 0.1 to 2.0 wt.%, a proportion of rare earth metals of 0.1 to 10 wt.%, wherein the yttrium content among the rare earth metal content proportion is 0.1 to 5.0 wt.%, a manganese proportion of 0.01 to 0.2 wt.%, an aluminium proportion of less than 0.1 wt.%, a proportion of copper, nickel and iron of less than 0.10 wt.% in each case, and a proportion of other physiologically undesirable impurities totalling less than 0.8 wt.%, wherein the remainder of the alloy is magnesium up to 100 wt.% .

[Figure 1]