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# **Polybactum<sup>®</sup>, a selective, bacteriostatic, locally active vaginal formulation: preclinical evaluation of tolerability**

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## **Abstract**

**Background:** Polybactum<sup>®</sup> is a vaginal mucoadhesive product (medical device) designed to form a film which acts as a mechanical barrier with the aim of inhibiting colonization by specific pathogens. It contains polycarbophil, a bioadhesive agent, and lauryl glucoside (LG), a non-ionic surfactant that reinforces the barrier effect through its tensioactive properties.

**Objective:** To assess the local safety profile, tolerability and efficacy of Polybactum<sup>®</sup> formulations

**Methods:** The following studies were performed on three Polybactum<sup>®</sup> formulations, two ovules (type 1: LG 0.04%; type 2: LG 0.1%) and one gel formulation: bacteriological tests assessing the effects on normal vaginal flora and pathogens; *in vitro* and *in vivo* tests designed

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