

## Product information

**Product name:** Benzyl penicillin (Penicillin G) ELISA-Test Kit

**Product number:** EP-3

**General Description:** Benzyl penicillin is widely applicable antibiotic, which is commonly employed in prevention, therapy, diagnosis of animal disease, or adjustment of physiological functions. Benzyl penicillin is synthesized to control animal disease effectively and promote the healthy development of farming industry. If animals absorb it too much, it will cause Bp-residues in animal food. Mankind produces allergic reaction and tolerance to a drug resulting from taking high residues food. Use of Benzyl penicillin was restricted in the EU and America. The EU regulated that maximum residue in milk is 4 ppb.

**Principle:** The GreenSpring™ Benzyl penicillin (Bp) ELISA Test Kit is based on the competitive enzyme immunoassay for the detection of Benzyl penicillin in the tissue (chicken, pork, and duck), honey, milk, fish, shrimp and egg. The coupling antigen is pre-coated on the micro-well stripes. The Benzyl penicillin in the testing sample competes with the coupling antigens pre-coated on the micro-well stripes for the antibodies against Benzyl penicillin. After the addition of the enzyme conjugate, the TMB substrate is added for coloration. The optical density (OD) value of the testing sample has a negative correlation with the content of Benzyl penicillin in it. This value is compared to the standard curve and the content of the corresponding Benzyl penicillin is subsequently obtained.

## Specifications

**Format:** 96 wells/kit (12 strips with 8 removable wells each)

**Sensitivity:** 0.1 ppb

**Detection limit:** Pork (liver), chicken (meat, liver), duck (meat, liver), shrimp, fish, honey, milk – 2 ppb

**Crossreaction rate:** Benzyl penicillin - 100%, Ampicillin - 0.8%, Cloxacillin 0.2%, Dicloxacillin -0.1%, Amoxicillin - 0.1%, Ceftiofur - 0.1%

**Sample processing time:** Pork (liver), chicken (meat, liver), duck (meat, liver), shrimp, fish 15 min., honey, milk – 10 min.

**Detection time:** 80 min.

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