

Lateral flow tests from bioavid with hook line

Reliable identification also of high positive samples



Benefits



Extended functionality: included hook line for safe identification of high positive samples



Quick and reliable results in 10 minutes



Specifically developed accessories available for hygiene control (swabbing kits) (Art. No. BS800-25 and BS801-25)



All included: all further reagents required for the assay – including a positive control – are contained in the test kit

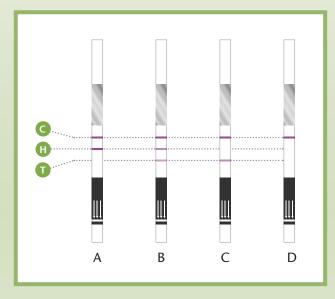


Also suitable for non-laboratory staff

New functionality – tracking the hook effect

The hook effect (or "overload"-effect; Standard EN 15633-1. 2019) is observed when a very high amount of an analyte is present in the sample. In this case, the analyte's amount exceeds the amount of colorlabelled antibodies and the ratio between both needed for the formation of the test band becomes imbalanced. Although the analyte is present, only a faint or even no test band is visible. Hence, there is risk for a falsely low or negative interpretation of a test result. This effect becomes visible by the hook line. A missing hook line indicates high allergen content in a sample. In this case, test users must not interpret a missing test line as negative.

1 to 3 purple lines may appear in the reaction field on the strip. The upper line is the control line **C**. It indicates that the test has been performed correctly. The middle line is the hook line **H**. It is visible in a valid test if the allergen concentration does not exceed ca. 1,000 or 10,000 ppm (depending on test). The lowest line is the test line **T**. It indicates the presence of the target residue in the sample in the range of approx. 1 to 1,000 ppm.



c and **l** line present, no test line: negative result (A)

3 lines present: positive result (B)

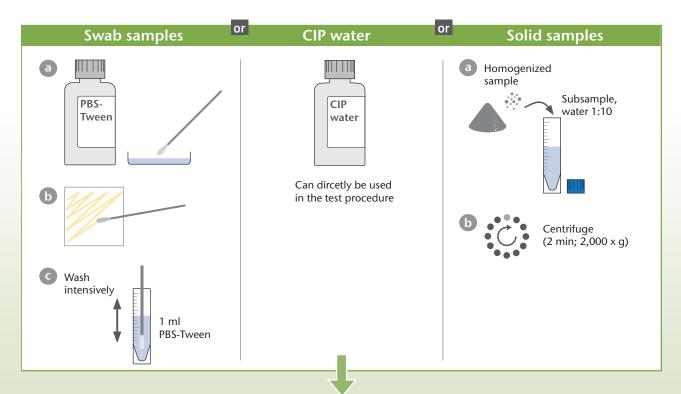
© line and ① line present, Hook line faint or absent: high positive result (≥ 1,000 ppm or 10,000 ppm) (C)

Only © line present: suspected high positive, repeat test with higher sample dilution (D)

No line: Test is invalid

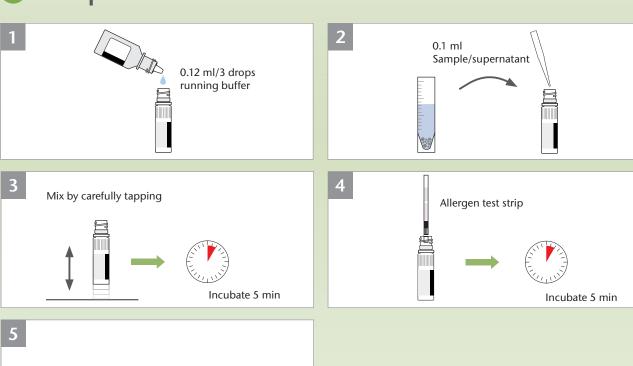


1 Sample preparation



2 Test procedure

Read the result





Food allergies

In the case of a food allergy, certain parts of a food (allergens) trigger an immune reaction in humans. This immune reaction causes a wide range of symptoms (e.g. slight prickling in the mouth, rash, anaphylactic shock). Worldwide, about 2 - 8 % of people suffer from a food allergy. Since there is currently no effective therapy for food allergies,

sensitized persons must follow an allergen-free diet. Therefore, labelling allergens on food is essential. For prevention of unintended contamination, food industry must consider a respective allergen management (e.g. testing of raw materials, checking production lines). Especially for the last aspect, lateral flows offer a fast, easy and reliable method.

Fast replies - Lateral Flow Devices (LFDs)

LFDs are a simple and fast technique combining chromatography and an immunological method to detect the presence or absence of an analyte (here: allergen). Within 10 minutes, a reliable result can be observed without the need for elaborate equipment. Thus, they are applicable everywhere.

Lateral flow tests including hook line

Product	Description	No. of tests/amount	Art. No.
Almond			
bioavid Lateral Flow Almond	Qualitative detection of Almond; Hook line upper limit: 1,000 mg/kg (ppm)	20 strips	BLH701-20
Coconut			
bioavid Lateral Flow Coconut	Qualitative detection of Coconut; Hook line upper limit: 10,000 mg/kg (ppm)	20 strips	BLH700-20
Hazelnut			
bioavid Lateral Flow Hazelnut	Qualitative detection of Hazelnut; Hook line upper limit: 1,000 mg/kg (ppm)	20 strips	BLH704-20
Mustard			
bioavid Lateral Flow Mustard	Qualitative detection of Mustard; Hook line upper limit: 1,000 mg/kg (ppm)	20 strips	BLH703-20
Peanut			
bioavid Lateral Flow Peanut	Qualitative detection of Peanut; Hook line upper limit: 1,000 mg/kg (ppm)	20 strips	BLH706-20

 $Detection\ limit\ for\ all\ tests\ is\ approx.\ 1\ mg/kg\ (ppm)\ allergen;\ result\ is\ available\ after\ 10\ minutes.$