



## foodproof® *Vibrio* Detection Kits

*Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae* are potential waterborne contaminants of seafood, causing severe health problems worldwide.

In contrast to traditional methods, which are time consuming and error-prone, the **foodproof *Vibrio* Detection LyoKit** offers high sensitivity, 100% specificity and results in less than 24 hours. In just one single test, *V. parahaemolyticus*, *V. vulnificus* and *V. cholerae* are detected and discriminated. Simultaneously, the pathogenicity factors *ctx*, *tdh*, *trh1* and *trh2* can be detected and individually identified by melting curve analysis using sequence-specific hydrolysis probes.

All relevant raw and processed seafood matrices such as whole squid, raw oysters or smoked salmon as well as other matrices can be analyzed. The rapid and easy sample preparation includes a live/dead discrimination step using Reagent D, eliminating false-positive results from dead *Vibrio*.

Convenient cost and time-saving colony confirmation protocols help to identify bacterial colonies.

**Safe:** 100 % specificity and sensitivity. Includes live/dead differentiation with Reagent D, preventing false-positive and false negative results. Minimizes carry-over contamination by using Uracil-N-Glycosylase.

**Sensitive:** Limit of Detection (LOD): 1 genomic equivalent (GE) for species discrimination, 10-25 GE for toxin gene identification.

**Easy:** Convenient, lyophilized, pre-filled reaction mix. Complete solution including DNA extraction and real-time PCR analysis.

**Cost-Saving:** Multiplex, individual detection of *V. parahaemolyticus*, *V. vulnificus* and *V. cholerae*, and additional identification of pathogenicity factors *ctx*, *tdh*, *trh1* and *trh2*.

**Fast:** Detection and Identification after only 18 - 24 h enrichment.

### Best Specificity

#### 100% Inclusivity

149 strains successfully tested, including associated toxin genes.

#### 100% Exclusivity

> 70 strains of > 50 species tested, including closely related organisms and microorganisms of the same habitat.

### Matrices

Compatible with raw seafood (e.g., white shrimp, whole squid, raw oysters), processed seafood (e.g., fish dumplings, smoked salmon), ready-to-eat and mixed food (e.g., sushi, wakame salad), and other matrices.

### Approvals



For details on the validated matrices, please refer to the respective certificate.

Supported by:



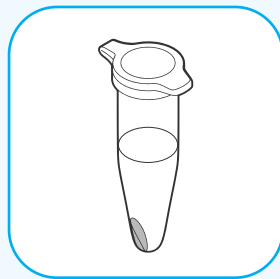
Federal Ministry  
for Economic Affairs  
and Energy

on the basis of a decision  
by the German Bundestag

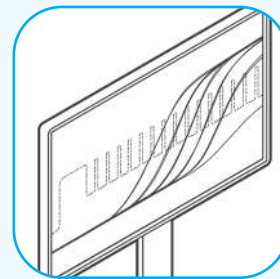
## Workflow



**Enrichment**  
18 - 24 h



**DNA Extraction**  
Duration depending on protocol  
and number of samples



**Real-Time PCR**  
110 min

## DNA Extraction Kits

### Manual

**foodproof® StarPrep® Three Kit**  
KIT 2301 87

Reagent D - (removal of dead cells)  
15 ml (KIT 2300 03)

### Tests

96 (21 mL)

144 (15 mL)

### LyoKits

#### Fast & Convenient

Lyophilized, prefilled reaction mix reduces hands-on time and minimizes contamination risks.

#### Easy Storage & Safe Transportation

Ships at room temperature, store at 2 °C to 8 °C .

## Real-Time PCR Kits

**foodproof® Vibrio Detection LyoKit**  
KIT 2301 17 (LP), KIT 2301 18 (RP)

### Tests

96

### Instrument Compatibility

#### Different Profile (DP):

e.g., Dualo 32® R²

#### Low Profile (LP):

e.g., LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

#### Regular Profile (RP):

e.g., Mx3005P

Other cyclers on request.



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