

Flow Chart for SureFood® PREP Advanced Protocol 2

Art. No. S1053

September 2022

(1) Preparation of the basic material

(2) Lysis of basic material



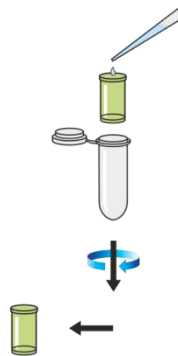
Add **580 µl Lysis Buffer** (Code L) and **20 µl Proteinase K** (Code K)

Mixing

Incubation **30 min 65°C** by shaking

Centrifugation 1 min 12000 rpm

(3) Pre - filtration and setting of optimal binding conditions



Place **green Spin Filter** (Code F) in **clear Receiver Tube** (Code R)

Add **400 µl clear supernatant** onto the **Spin Filter**

Centrifugation 1 min 12000 rpm

Discard Spin Filter

(4) Binding of nucleic acids



Add **250 µl Binding Buffer** (Code B) to the filtrate

Mixing

Place a **clear Spin Filter** (Code S) into a **new clear Receiver Tube** (Code R)

Transfer the **complete solution** onto the **Spin Filter** (Code S)

Incubation **1 min at room temperature**

Centrifugation 1 min 12000 rpm

Discard the filtrate

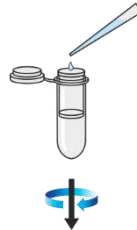
Place the Spin Filter back into the Receiver Tube

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- (5) Purification of bound nucleic acids &
- (6) Drying of the Spin Filter

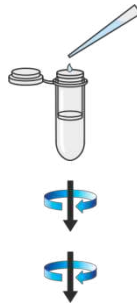


Add **550 µl Pre-Wash Buffer** (Code P)

Centrifugation **1 min 12000 rpm**

Discard filtrate
Place Spin Filter back into the Receiver Tube (Code R)

Add **550 µl Wash Buffer** (Code W)

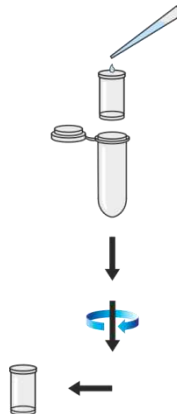


Centrifugation **1 min 12000 rpm**

Discard filtrate
Place Spin Filter back into the Receiver Tube (Code R)

Centrifugation **2 min 12000 rpm**

- (7) Elution of nucleic acids



Place the **Spin Filter** into a **new clear Receiver Tube** (Code R)

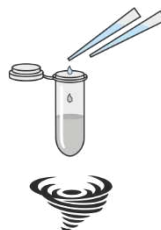
Add **200 µl preheated Elution Buffer** (Code X)

Incubation **3 min 65°C**

Centrifugation **1 min 10000 rpm**

Discard Spin Filter

- (8) Repeated setting of optimal binding



Add **200 µl Lysis Buffer** (Code L) and **200 µl Binding Buffer** (Code B) to the **filtrate from Step 7**

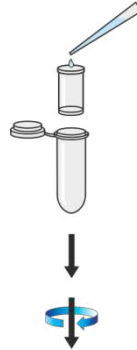
Mixing

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(9) Second Binding of nucleic acids



Place a **new clear Spin Filter** (Code S) into a **new clear Receiver Tube** (Code R)

Transfer the **complete solution** from step 8 onto the Spin Filter

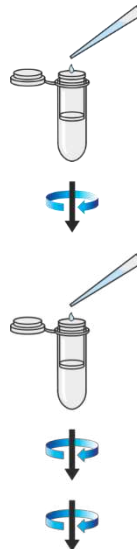
Incubation **1 min at room temperature**

Centrifugation **1 min 12000 rpm**

Discard filtrate
Place Spin Filter back into the Receiver Tube

(10) Second purification of the bound nucleic acids &

(11) Drying of the Spin Filter



Add **550 µl Pre-Wash Buffer** (Code P)

Centrifugation **1 min 12000 rpm**

Discard filtrate
Place Spin Filter back into the Receiver Tube (Code R)

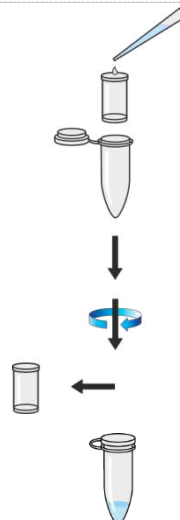
Add **550 µl Wash Buffer** (Code W)

Centrifugation **1 min 12000 rpm**

Discard filtrate
Place Spin Filter back into the Receiver Tube

Centrifugation **2 min 12000 rpm**

(12) Elution of nucleic acids for analysis



Place the **Spin Filter** into a new **clear 1.5 ml Receiver Tube** (Code T)

Add **50 µl preheated Elution Buffer** (Code E)

Incubation **3 min 65°C**

Centrifugation **1 min 10000 rpm**

Discard Spin Filter

The eluted DNA is ready-to-use for the PCR