# **BioCode® GPP**

Tips for Successful Sample Prep and Extraction With KingFisher™ Flex

## **Stool Amount:**

Mix RNA IC and S.T.A.R. Buffer at a 1/100 ratio (v/v) to prepare 1 mL solution for each specimen then vortex for 5-10 seconds. **Add 100 \muL Cary-Blair** or watery stool or one loopful (~100 mg) of formed stool to the SK38 tubes. Use 10  $\mu$ L-Loop to pick up a loop of formed stool to add to SK38 tube. Do not add more stool than instructed. Doing so may lead to "**invalid results**".



## **Extraction:**

Transfer 200 µL of lysate from the SK38 tube into an KingFisher™ Flex processing cartridge with 10µL Proteinase K.

## **KINGFISHER™ Flex**

#### Instrument Prep:

- Label deep well plates on the site: Wash Buffer 1, Wash Buffer 2, Wash Buffer 3, Sample Plate, and elution buffer.
- Label 50-mL conical Tube Binding Buffer Solution.
- Prep Binding Buffer solution
- Add Wash Buffer 1: Pour appropriate amount of WB 1 into reservoir. Pipette 500µL into each cartridge labelled WB1.
- Add Wash Buffer 2: Pour appropriate volume into a new reservoir.
  Pipette 500µL into each cartridge labeled WB2.
- Sample Prep:
- Using a repeater pipette, add 10µL proteinase K to each sample well.
- Add 200µL of SK-38 processed sample to each well, pipette up and down to mix thoroughly.
- Add 275µL of the prepared Binding Buffer Solution to each well, pipette up and down to mix thoroughly.

- Add Wash Buffer 3: Pour appropriate volume into the same reservoir from previous step. Pipette 250µL into each cartridge labeled WB3.
- Add Elution Buffer: Pour appropriate volume into a new reservoir. Pipette 60µL into each well of Elution plate.
- Place all Cartridges into a bag until ready to load onto the instrument. Work as quickly as possible to add samples to the plate.

#### Perform Protocol: MVP\_Flex\_200µL\_10minibind.bdz.

Enter lot information prior to loading.

- Load all cartridges onto the instrument, follow the onscreen prompts from the Bindlt software.
- When the runs are complete, set aside the elution plate and place all other reagents in a plastic bag to dispose of in a biohazard bin.

## Nucleic Acid Storage Conditions:

Transfer sample extracts from the cartridge into PCR grade container.

### 2-8°C refrigerator

If testing within 24 hours.

#### -80°C or below

If testing **cannot** be completed within 24 hours of extraction.

#### NOTE

 Store extracted nucleic acids at -80°C or below for up to 90 days.

 Store leftover pretreated samples (in SK38 tubes) at -80°C or below for up tp 90 days.

**Applied BioCode** 

## Repeat/Reflex Extraction:

KingFisher™ Flex

• Transfer 50 µL from the SK38 tube and 150 µL S.T.A.R. buffer into the same plate.

• Perform Protocol: Proceed with same protocol as above.

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