



## Step 1: Enrich Individual Samples and Prepare

- Add sample and media to a filtered blender bag and mix.
- Enrich sample for specified amount of time.
- OPTIONAL: Pool up to five samples into one container.
- From an enrichment broth sample, transfer **1 mL** of sample into micro-centrifuge tube and vortex for 10 seconds.

## Step 2: Lyse Bacteria and Isolate DNA

- Transfer **5 µL** of sample into bead tube
- Bead beat on Disruptor Genie for 5 minutes

## Step 3: Reconstitute Reagent:

- Add **45 µL** of reconstitution buffer to reagent tube.
- Mix the reagent tube by pipetting the sample up and down or by vortexing the tube for 3 seconds.
- Spin the reagent tube.

## Step 4: Add Sample to Capillary Tube

- Pipette **5 µL** from reagent tube into a capillary tube (Repeat for the remaining samples)
- Transfer **5 µL** of sample from the bead tube into a capillary tube
- Cap capillary tube.
- Centrifuge at low speed in a micro-centrifuge for 3-5 seconds.
- Load the capillary tubes into the carousel.

## Step 5: Run Protocol and Automatic Software Results

- Place the carousel into the thermal cycler.
- Start the run using FSS R.A.P.I.D. LT software. The software automatically calls the results in less than an hour.



# High Volume R.A.P.I.D.<sup>®</sup> LT FSS Protocol-at-a-Glance

Note: Keep all enrichment broths until results are obtained.

Note: To confirm positive samples: Allow enrichments to incubate for an extended period of time according to the proper FDA BAM or USDA MLG method. Follow the appropriate method for confirmation.

1. From an enrichment broth, transfer **1 mL of sample** into a micro-centrifuge tube and **vortex** for 10 seconds.
2. From the micro-centrifuge tube, transfer **5 µL of sample** into bead tube and **bead beat** on the Disruptor Genie for 5 minutes.

Note: The bead tube contains beads and 200 µL of buffer.

3. Add **45 µL of reconstitution buffer** into a reagent tube and **mix** the reagent tube by pipetting up and down or by vortexing the tube for 3 seconds. If vortexing, spin or tap the reagent tube so the liquid is returned to the bottom of the tube.

Note: If setting up a full carousel, you can add reconstitution buffer to 4 reagent tubes.

Note: Reagent tubes are labeled with the same colored label as the respective reconstitution buffer.

4. From reagent tube, pipette **5 µL of mastermix** into 8 capillary tubes.
5. From the bead tube, transfer **5 µL of sample** into a capillary tube. Cap the capillary tube. Repeat for remaining samples.

Note: Use **5 µL of reagent grade water** in place of sample for negative controls.

6. **Centrifuge** at low speed in a micro-centrifuge for 3-5 seconds.
7. Carefully **load the capillary tubes** into the thermal cycler carousel.
8. **Place the carousel** into the thermal cycler.
9. **Start** the run.