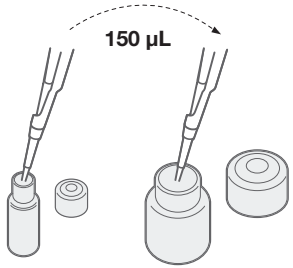
BAX® System Q7

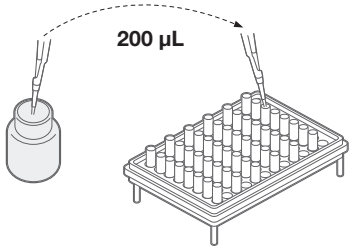
# Ready Reference for Standard PCR Assays

## STEP 1: PREPARATION

### Add 150 µL protease to 12 mL lysis buffer

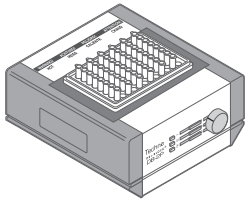



### Add 200 µL lysis reagent to cluster tubes

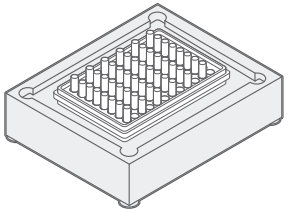



Lysis reagent can be stored at 2-8°C for up to two weeks

### Ensure thermal blocks are pre-heated to 37°C or 55°C, and 95°C prior to use

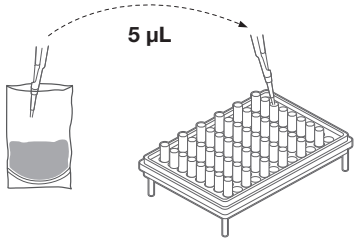


### Ensure cooling blocks are stored at 2 – 8°C prior to use



## STEP 2: LYSIS

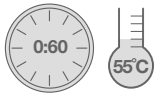
### Transfer 5 µL* enriched samples to cluster tubes



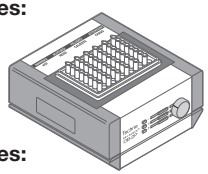

***For *E. coli* O157:H7 use 20 µL**

### Heat cluster tubes (First Stage)


**37°C for 20 minutes:**
Cronobacter
*E. coli* O157:H7
*Salmonella*

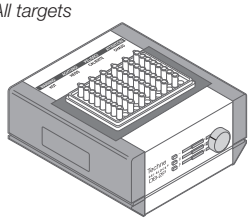



**55°C for 60 minutes:**
Genus *Listeria*
*L. monocytogenes*

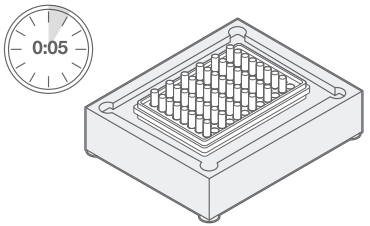


### Heat cluster tubes (Second Stage)


**95°C for 10 minutes:**
*All targets*



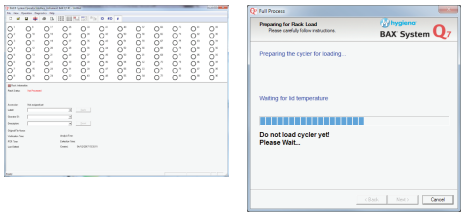
### Cool cluster tubes for a minimum of 5 minutes in cooling block



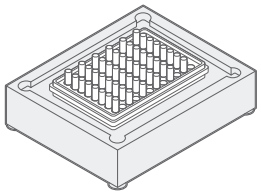

Unopened processed lysates can be stored at 2-8°C for up to two weeks

## STEP 3: PCR

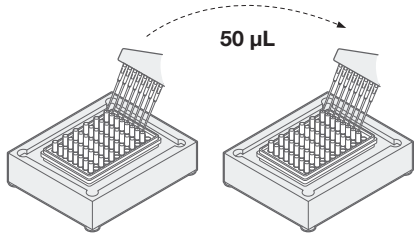
### Create rack file, turn on cycler, and initialize




### Arrange PCR tubes in PCR cooling block with black carrying tray



### Hydrate PCR tablets with 50 µL lysate from cooled lysates




### On software, click next, place PCR tubes in Q7 cycler and run program

### Review results on screen

- Negative
- Positive
- Indeterminate
- Signal error