

RiboPrinter® System Sample Preparation



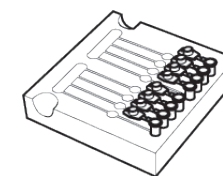
1.

Perform Gram stain to determine Gram-reactivity, if necessary.

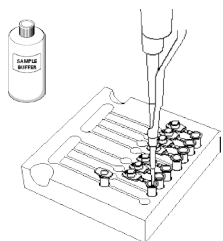


2.

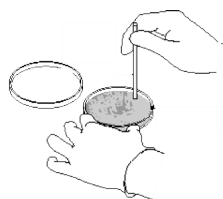
Place 8 microcentrifuge tubes in bottom row of sample prep rack.



3. Gram-negative samples (1 colony pick, 200 uL buffer)



Transfer 200 uL sample buffer into tube.



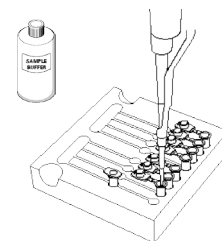
Touch colony pick to solid lawn. Make sure cells have transferred to the tip, then drop pick into tube.*



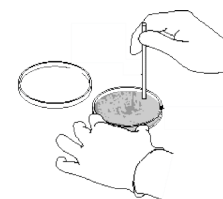
Vortex 5 seconds. Check tip to make sure all cells transferred, then dispose of pick.

* See Tips for Picking and Transferring Sample Isolates on other side

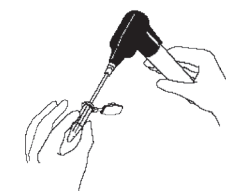
3. Gram-positive samples (2 colony picks, 40 uL buffer)



Transfer 40 uL sample buffer into tube.



Touch colony pick to solid lawn. Make sure cells have transferred to the tip, then drop pick into tube.*



Vortex 5 seconds. Check tip to make sure all cells transferred, then dispose of pick.



Repeat with new pick, same tube.

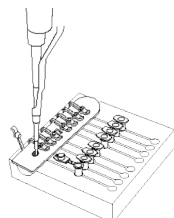
* See Tips for Picking and Transferring Sample Isolates on other side

4.



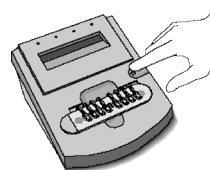
Close lid and move tube to middle row.

5.



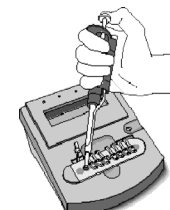
Place sample carrier into sample prep rack. Transfer 30 uL sample from tube to well.

6.



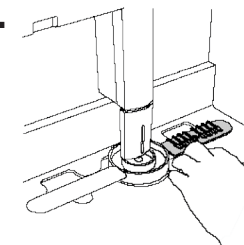
Insert carrier into HTS and press button to start treatment (about 25 min).

7.



Add 5 uL Lysing Agent A, then 5 uL Lysing Agent B to each well. Use clean tips for each transfer.**

8.



Begin processing with RiboPrinter® System within 90 min of heat treatment completion.

** For lactic acid bacteria, also add 18 uL Lactics Agent to the restriction enzyme vial before processing samples.

Tips for Picking and Transferring Sample Isolates

- Allow sample colonies to grow until the log phase of growth is complete (usually at least 18-24 hours).
Note: Some slow-growing organisms may require more than 24 hours.
- Select samples from a pure uniform lawn. If this is not possible, pick from isolated colonies.
- When picking samples, ensure that the flat end of the colony pick is completely covered to ensure enough of the isolate is collected for sampling.
- When picking samples, **do not** transfer more than the recommended amount of an isolate to the microcentrifuge tubes. Doing so could overload the system and produce inaccurate results.
- When picking samples, avoid picking and transferring the growth medium.
- Always ensure that the caps on the Sample Carrier and microcentrifuge tubes are firmly closed before processing samples.