

Transformation

KIT-Kyoto

Price of the Materials

	Price (JPY)	Price (USD)
Sample, 10 μ l	depends on species	depends on species
Competent cells (DH5 α E.coli), 20 μ l	¥400	\$4
Ice	¥0	\$0

¥100=\$1.00

Protocol

Procedure

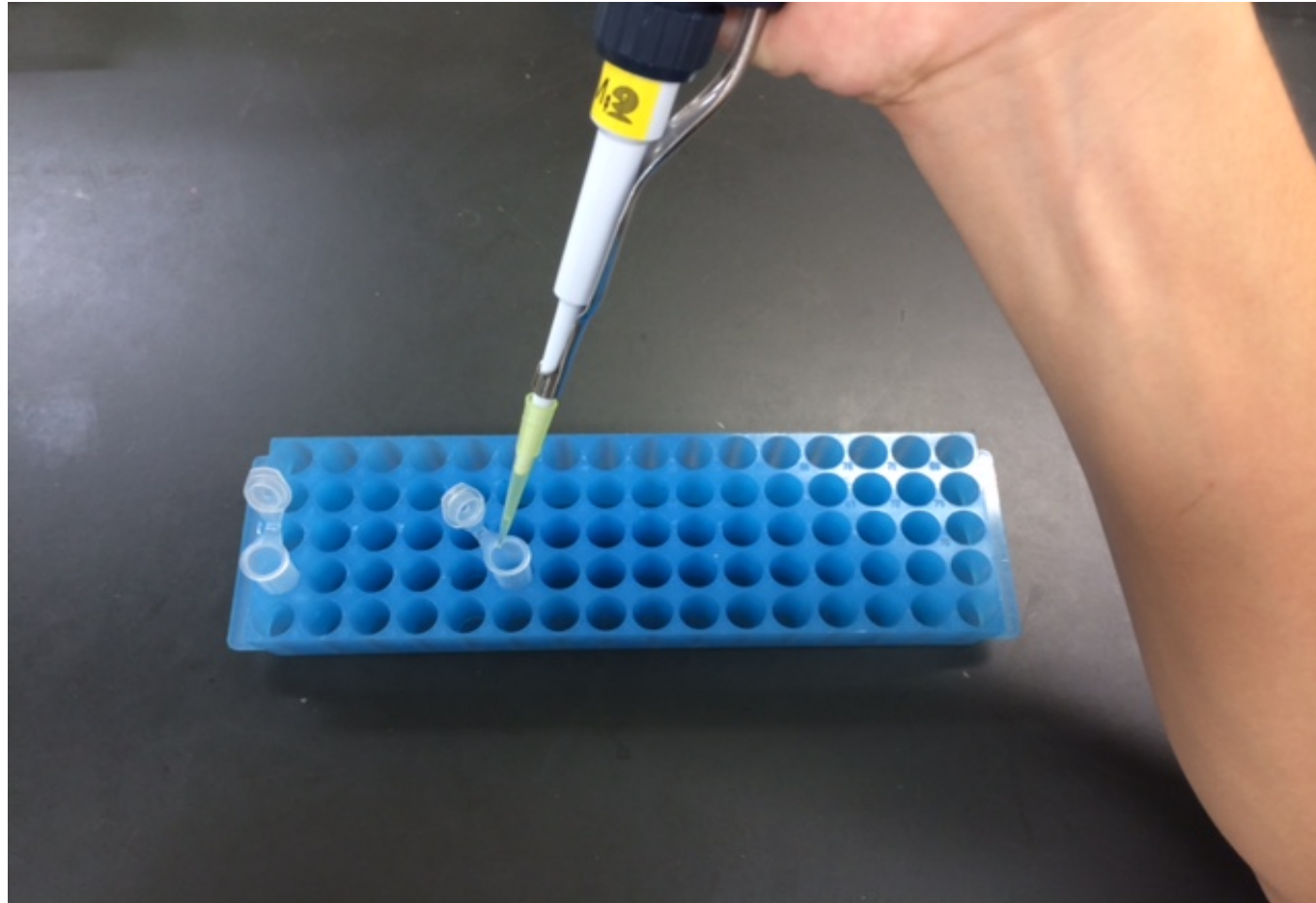
1. Thaw the competent cells on ice.
2. Add $10\ \mu\ell$ of sample into thawed competent cells.
3. Cool an Eppendorf tube, which contains competent cells and samples, with ice for one hour, then Heat shock the cells by immersion in pre-heated water bath at 41°C for 30 seconds.
4. Place the tube on ice for 2 minutes to cool it down.
5. At clean bench, add 1.0 ml of LB medium into the tube and suspend it.
6. Incubate at 37°C for 35 minutes.
7. Harvest the cells by centrifuge.
8. Seed the transformed competent cells onto the agar plate and incubate it at 37°C overnight.

Procedure

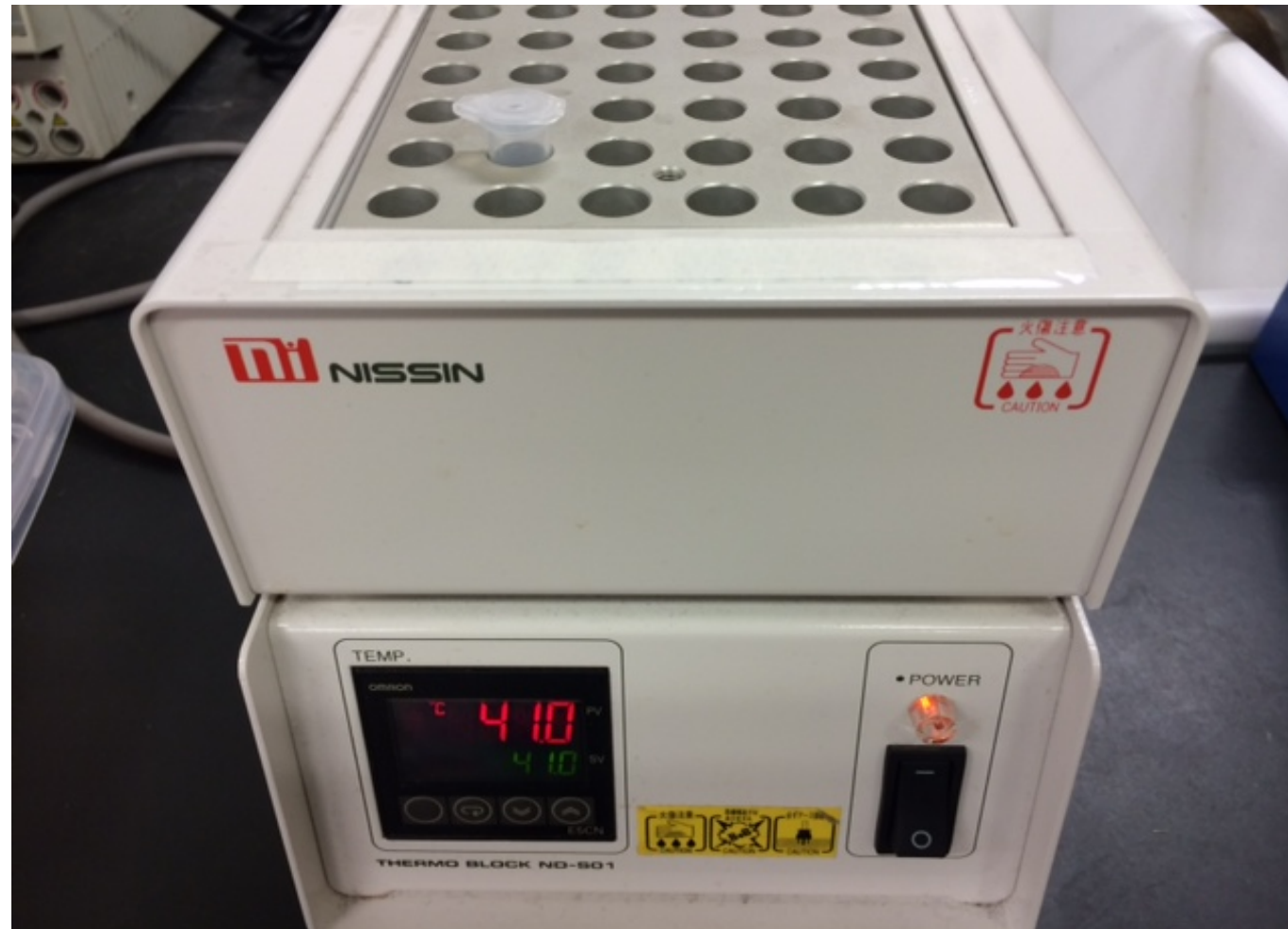
1. Thaw the competent cells on ice.



2. Add 10 μ l of sample into thawed competent cells.



3. Cool an Eppendorf tube, which contains competent cells and samples, with ice for an hour, then Heat shock the cells by immersion in pre-heated water bath at 41°C for 30 seconds.



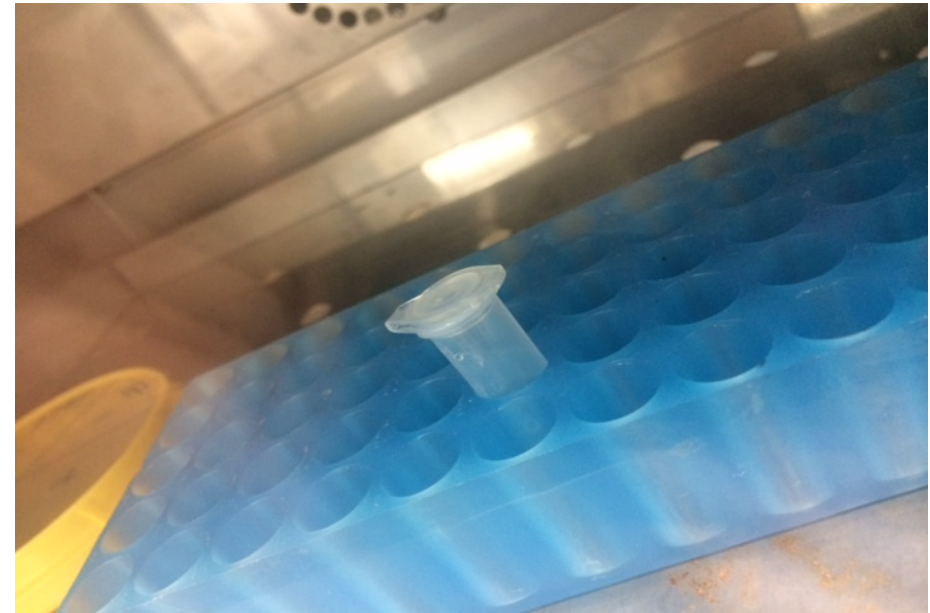
4. Place the tube on ice for 2 minutes to cool it down.



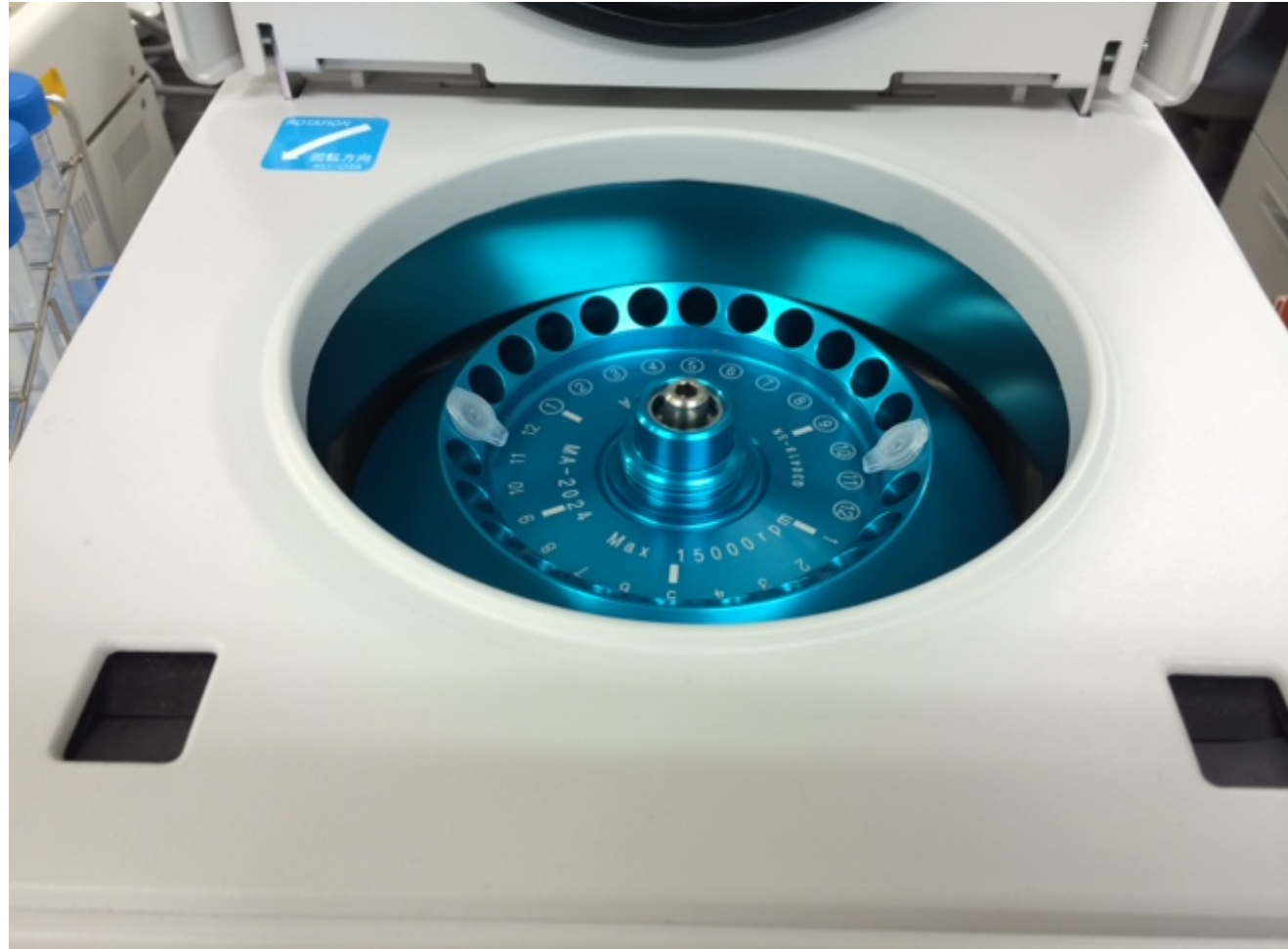
5. At clean bench, add 1.0 ml of LB medium into the tube and suspend it.



6. Incubate the tube on at 37°C for 35 minutes.



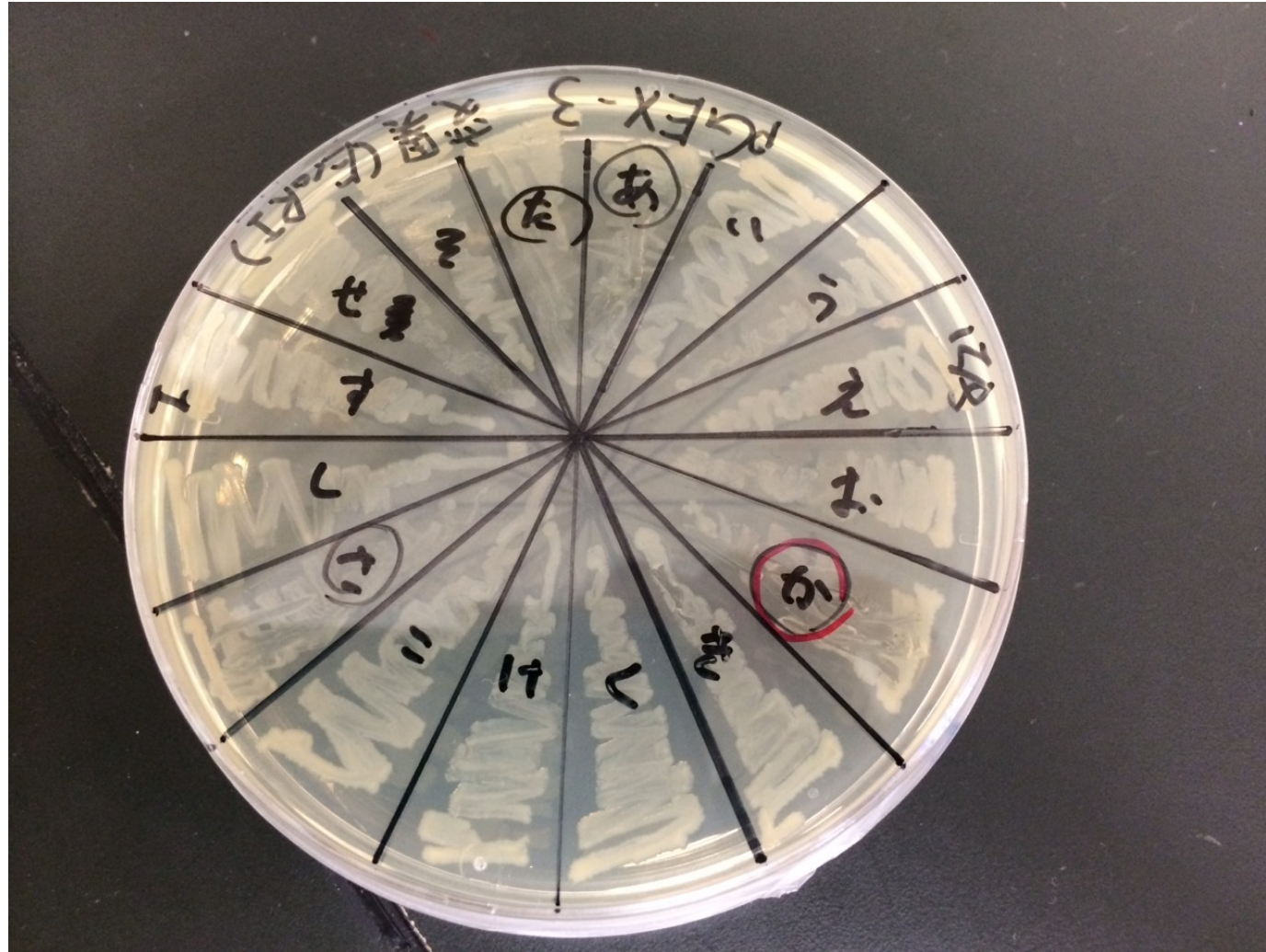
7. Harvest the cells by centrifuge.



8. Seed the transformed competent cells onto the plate and incubate it at 37°C overnight.



Result



Colonies are identified in 16 sections.