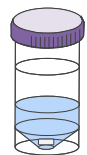
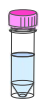


SI SS Kit Protocol

SI SS Kit



External solution
7.25 mL



Internal solution
685 μ L



Amino acid mixture
(Non-labeled) 1 mL



Glutathione, Oxidized
(GSSG) 1.2 mL



Glutathione, Reduced
(GSH) 1.2 mL



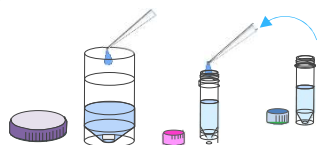
Dialysis cup
MWCO; 15 kDa

Supplied by user



Template DNA
(25-250 ng/ μ L)

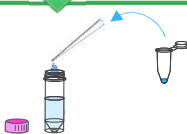
2



Add each component to the external and internal solutions, respectively, as indicated in the following table.

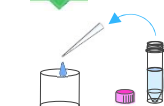
	Amino acid mix	Redox soln.	H ₂ O
External soln.	750 μ L	1 mL	1 mL
Internal soln.	75 μ L	100 μ L	100 μ L

3



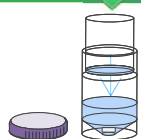
Add 40 μ L of template DNA to the internal solution. (final 1-10 ng/ μ L)

4

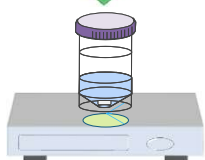


Transfer the internal solution to the dialysis cup.

5

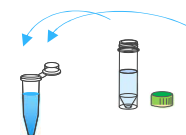


Place the dialysis cup into the external container, and close the lid.



Incubate the samples at 30 °C for 4 to 16 hours.

1



Glutathione (GSSG/GSH) mixture

Mix GSH and GSSG in a ratio suggested by the following table.

Redox conditions	1	2	3	4	5
GSSG	0	240	600	960	1200
GSH	1200	960	600	240	0

This kit is also commercially available outside Japan as the iPE Kit from Sigma-Aldrich.