

gene**checker**

Swab:Direct™ Extraction Kit



Swab:Direct™ extraction kit is designed to perform PCR test from nasopharyngeal and oropharyngeal swab samples without prior DNA/RNA purification process. The buffer includes high concentrated alkaline compounds for lysis and elution of sample organisms. This product is easy to use by just mixing the swab sample and extraction buffer without additional processes for preparing nucleic acid template to run PCR tests.



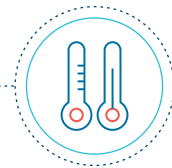
Fast and simple method
to extract DNA – Whole
process in 5 minutes



Minimized
hands-on time

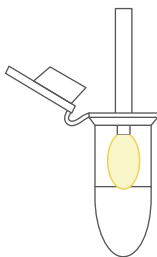


Ideal for on-site
testing

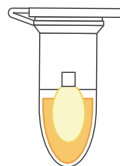


Room temperature
storage

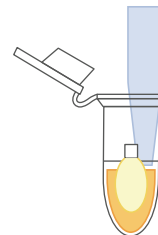
PROTOCOL



Put the swab stick in the
tube of Swab:Direct™
lysis buffer



Snap off the swab stick
leaving the swab tip
into the tube, and close
the cap.



Take 10 µL of
supernatant of the
mixture and use this as
template of PCR test

Shake the tube up and
down for 5-10 times and
incubate it in the room
temperature for
5 minutes for lysis

Kit Contents

Label	Contents	Quantity
EB	Extraction Buffer	300 µL x 100 tubes*

COMPARISON OF NUCLEIC ACID EXTRACTION PERFORMANCE

1) PCR result using nucleic acid extracted by Swab:Direct™ Extraction Kit

No.	Sample Type	Ct. value of repeated tests					
		1	2	3	4	5	Average
1	Nasopharyngeal swab	29.82	31.01	30.65	30.96	31.64	30.82
2	Oropharyngeal Swab	30.36	31.68	30.94	32.35	31.46	31.36

2) PCR result using nucleic acid extracted by Spin Column Method from A Company

No.	Sample Type	Ct. value of repeated tests					
		1	2	3	4	5	Average
1	Nasopharyngeal swab	31.96	30.88	31.81	31.68	31.53	31.57
2	Oropharyngeal Swab	31.45	31.97	32.16	31.25	32.35	31.84

3) PCR result using nucleic acid extracted by Magnetic Bead Method from B Company

No.	Sample Type	Ct. value of repeated tests					
		1	2	3	4	5	Average
1	Nasopharyngeal swab	35.15	34.76	35.93	36.57	35.06	35.49
2	Oropharyngeal Swab	35.33	35.49	35.27	34.60	34.74	35.09

Real-time PCR System: GENECHECKER® UF-300 Real-time PCR System (Genesystem Cat. # 1399100200)

Target Primer: GAPDH housekeeping gene detection primer

PCR Reagent: Rapi:Spec™ Probe Master Mix with RTase (Genesystem Cat. # 9799100700)

ORDERING INFORMATION

Catalog Number	Product	Pack Size
9799140105	Swab:Direct™ Extraction Kit	100 preps/PK

Genesystem Co., Ltd.