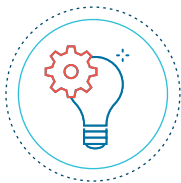


gene**checker**

# Media:Direct™ Extraction Buffer

**Media:Direct™ extraction buffer** is designed to perform PCR test with transport media containing viral samples, without prior DNA/ RNA purification process. The buffer includes high concentrated alkaline compounds for lysis and elution of sample organisms. This buffer is produced on the basis of the formulation that minimizes PCR inhibiting contents of the samples. This product is easy to use by just mixing the extraction buffer and transport media without additional process for preparing a nucleic acid template to run PCR tests.



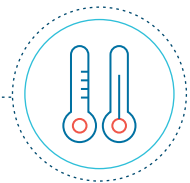
Fast and simple method to extract DNA – Whole process in 5 minutes



Minimized hands-on time

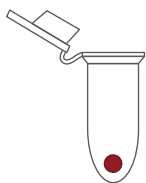


Ideal for on-site testing

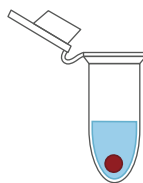


Room temperature storage

## PROTOCOL



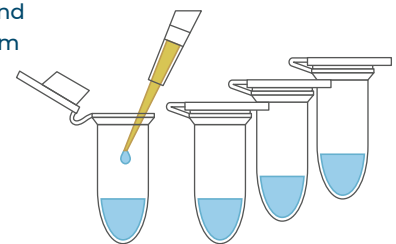
Prepare empty sample tube for mixing transport media and Media:Direct™ extraction buffer



Put 90  $\mu$ L of transport media containing sample organism and 10  $\mu$ L of Media:Direct™ extraction buffer in the tube



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



Take 10  $\mu$ L of supernatant of the mixture and use this as template of PCR test

## KIT CONTENTS

Label	Contents	Quantity
EB	Extraction Buffer	100 $\mu$ L x 10 tubes*

## COMPARISON OF NUCLEIC ACID EXTRACTION PERFORMANCE

1) PCR result using nucleic acid extracted by Media:Direct™ Extraction Buffer

No.	Sample Type	Ct. value of repeated tests					
		1	2	3	4	5	Average
1	Nasopharyngeal swab (VTM)	30.69	30.83	30.62	30.96	30.31	30.68
2	Oropharyngeal Swab (VTM)	31.58	31.03	31.61	30.08	30.68	31.00

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 (VTM)	31.01	31.12	31.05	30.83	31.07	31.01
2	Oropharyngeal Swab (VTM)	31.51	31.32	31.55	31.53	31.74	31.53

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 (VTM)	34.39	34.34	34.14	34.03	34.58	34.30
2	Oropharyngeal Swab (VTM)	35.23	35.18	34.98	34.55	33.67	34.72

**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 No.	Product	Pack Size
9799140106	Media:Direct™ Extraction Buffer	10 tubes/PK

Genesystem Co., Ltd.