

Specification

Product Name	Automated DNA isolation system GENE PREP STAR
Model	PI-1200A
Throughput	384
Primary Tube	96 deep-well plate x 4
Selectable Protocol	Plasmid DNA, Tissue DNA, Plant tissue (ver.1) etc.
System Components	<ul style="list-style-type: none"> ●Centrifuge.....Swing rotor, maximum spin speed: 4,000 rpm ●Dispenser unit.....12 channel nozzles with reagent drop tray ●Robot unit.....X, Y, Z axis moving ●Slide Table unit...X axis moving ●Agitator unit.....Eccentric rotating vibration
Main features	<ul style="list-style-type: none"> ●Operate, change, and store 9 parameters ●Restart Operation
Attachment	Waste fluid bottle x 2 1 unit of Personal Computer (OS: Windows XP Home Edition)
Consumables	<ul style="list-style-type: none"> ●Specific tip ●Specific Reagent ●96 deep-well plate (commercial product)
Power Supply	Device: AC200V, 50/60Hz, 1.8kVA PC: AC100V, 50/60Hz
Size	W 1,820 x D 750 x H 1,650 mm
Weight	Approx. 580 kg

Consumables

Product Name	Number of tips	Cat. No.
Pipetting tips, bulk	1,000 pcs	T-1000B
Pipetting tips in rack	960 pcs (96 pcs x 10 racks)	T-1002R

Reagent kit

Product Name	Cat. No.
Plasmid isolation reagents kit II	PR-500
Plant DNA isolation reagents kit (Ver.1)	NR-501
Animal tissue DNA isolation reagents kit	NR-201

- For Research Use Only
- Design and specifications are subject to change without notice.
- All brand names and product names are trademarks or registered trademarks of their respective companies.

GENE PREP STAR

PI-1200A

Automated
DNA
Isolation
SystemHigh
quality
DNA96
deep-well
plate384
sampleE-mail
notificationLow
running
cost

Key Features

Application Data

■ DNA isolation step



■ Key Features

- Multi-sample automated operation

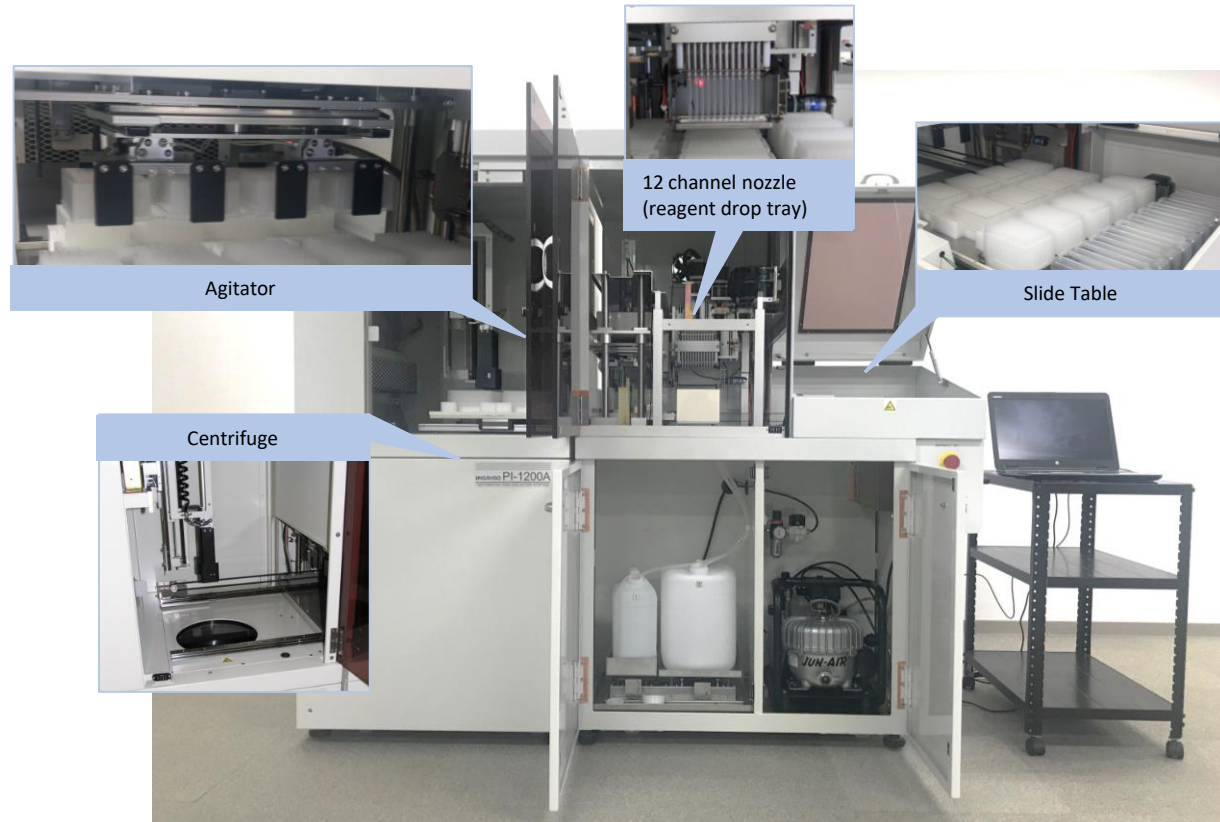
- Automated DNA isolation in **96 deep-well plate**
- Maximum **384 samples** (96 deep-well plate x 4 plates) setting
- E.coli* cultured in 96 deep-well plate can be set directly into the system.
- Operation is automatically done from fungus collection to DNA isolation.
- It takes approx. 4 hours from sample set to finish.

- e-mail alert

- End of operation is notified by e-mail.
- Error message can be sent in the case of an error during operation.
- ※Network connection is needed.

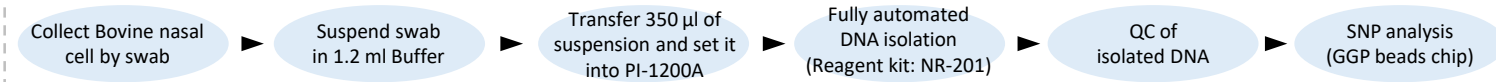


■ System Components

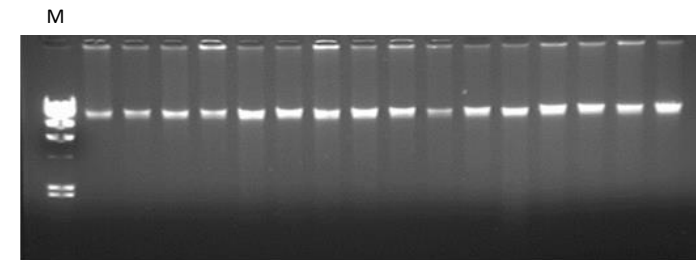


Bovine nasal cell

<Workflow if experiment>



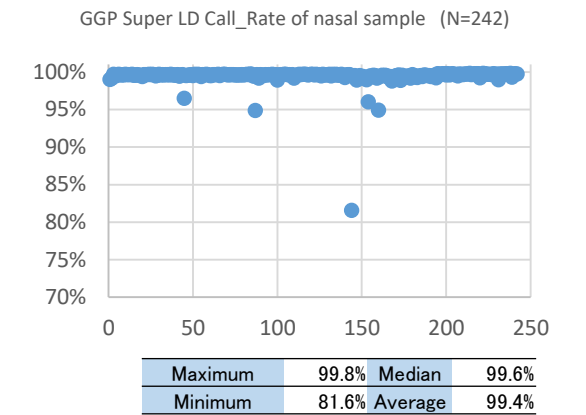
<Quality check of isolated DNA _ agarose gel electrophoresis>



DNA isolation
- sample: Bovine nasal cell
- Isolated protocol: Animal tissue

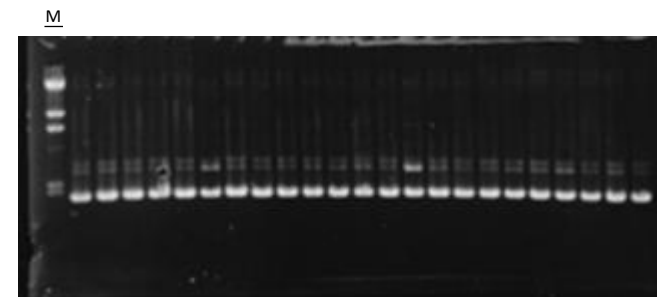
Gel electrophoresis
- 1% agarose, 1 x TAE
- 50V, 60 min
- Ethidium Bromide stain
- M: λ HindIII digest

<SNP type detection>



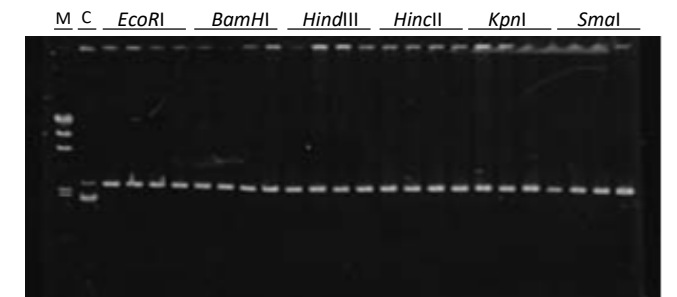
E. Coli

<Gel electrophoresis of isolated plasmid DNA>



Sample: *E.coli* DH5α / pBluescript sk
Isolated protocol: Plasmid protocol
M: λ HindIII digest

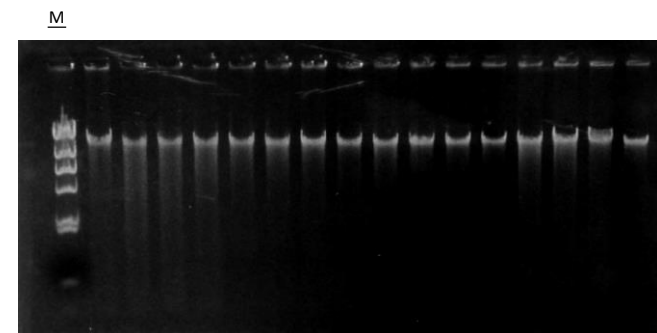
<Restriction enzyme treatment of plasmid DNA>



Reactions: 200 ng of isolated DNA was treated with 4 units of restriction enzyme at 37°C for 2 hours.
M: λ HindIII digest C: undigested

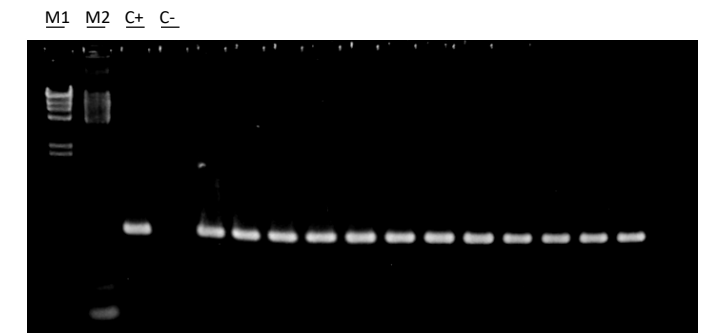
Leaf of soy bean

<Gel electrophoresis of isolated DNA>



Sample: Leaf of soy bean 50 mg
Isolated protocol: Plant tissue
M: λ HindIII digest

<PCR reaction of isolated DNA>



Template DNA: each 50-150 ng Target: Soy bean *-rbcl* gene (670bp)
Cycles: 30 Cycles Enzyme: Taq DNA polymerase (0.125U)
M1: λ HindIII digest M2: ϕ 200bp ladder
C+: Positive control C-: Negative control