

COMMODITY DESCRIPTION

H.S. NO	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
		Nucleic acid extractor	1	System

A . FEATURES :

1. This equipment is used to extract and purify nucleic acids and proteins from biological samples using centrifugation.
2. It enables remote control and monitoring via Wi-Fi, LIMS, etc., and prevents contamination through the UV light installed on the equipment.
3. In addition to general nucleic acid extraction, it is capable of extracting nucleic acids from gels resulting from electrophoresis, and it can also extract and purify nucleic acids from PCR products and plasmids.

B. CONSIST OF

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| 1. Nucleic acid extractor | 1 set |
| 2. Accessories | |
| 1) Standard accessories | 1 set |
| 2) Operation Manual | 1 copy |
| 3) Service Manual (Included circuitary information for trouble-shooting) | 1 copy |

C. SPECIFICATIONS :

1. Nucleic acid extractor
 - 1) Purification method : Silica membrane or Magnetic bead
 - 2) Centrifuge (silica membrane method only)
 - Rotating speed : max. 10,640 rpm
 - Centrifugal force : max. 12,000g
 - Swing rotor angle/count : max. 45°/12ea
 - 3) Magnetic particle (magnetic bead method only) : 1~2.8 um
 - 4) Shaker
 - Speed : about 100~2,000 rpm
 - Amplitude : about 2 mm
 - Heating range : room temp. ~ 70°C or wider
 - Heating time : 5 minutes or less to 55°C
 - Difference between detected temp. and sample temp. : 2°C or less
 - 5) Pipeting
 - Syringe or tube capacity : 1mL
 - Pipeting range : 50~900 uL or wider
 - 6) Throughput : simultaneously 12 samples or more
 - 7) UV lamp
 - Wavelength : about 278 nm



- Output

: about 200~300 mW

D. REMARKS :

1. Installation

- Supplier or contractor should be responsible for installation of this equipment.

2. Warranty

- Supplier or contractor should be responsible for free of charge after - service whatever there is any defect or any trouble for three years after being accepted by customer.
- If contractor and supplier do not supply appropriate service manual, the period of time for warranty is six years.
- If a warranty of less than three years is provided for all or part of the equipment, it is separately described in section B. Consist of.

3. Etc.

- If there is a request from the user department, the supplier provides hospital computer data linkage (1-year warranty) such as EMR, PACS, and LIS free of charge, and the procedures of data link should be proceeded with the department of medical information in KYUNGPOOK NATIONAL UNIVERSITY HOSPITAL.
- The operating system required for operating the equipment should be based on Win11Pro. In case of lower versions, the supplier must report to the KNUH Information Security Team and should perform free upgrades of the operating system and operating software according to future equipment updates.

