

For Any Technical Questions, Please Contact at info@nodesus.com

Product Name: VERSA 1100 Nucleic Acid Purification Work Station

Part Number:

Product Description:

VERSA 1100 Nucleic Acid Purification Work Station

Aurora equips the VERSA Automated DNA Extraction system (sometimes referred to as automated nucleic acid extraction system) with modules to automate challenging steps for any automatable DNA or RNA extraction, purification, or isolation protocols. The versatility of this system accommodates diverse applications in genomics, proteomics and general liquid handling with high precision, throughput and accuracy. Additionally, this workstation conserves expensive reagents, eliminates concerns associated with manual volumetric variations and automates all repetitive pipetting protocols.

VERSA Gene Nucleic Acid Purification Workstation (NAP) is especially configured for nucleic acid extraction. The Magnetic Bead Vortex ensures homogeneous bead suspension and distribution throughout the plate. The combination of the ReagentDrop bulk dispensing module and 96-Tip Aspirator offers fast and efficient bead washing and elution steps while saving tip costs. Aurora's automated nucleic acid purification and extraction systems feature a gripper that enable more flexibility in tailoring different protocols. The VERSA NAP automated DNA/RNA extraction systems are compatible with various commercial kits, reagents, and labware.



VERSA 1100 Workstation

Application:

Genomics

- ✓ Nucleic acid extraction and isolation
- ✓ DNA size selection
- ✓ Bioseparations
- ✓ Bioenrichment
- ✓ Protein Isolation
- ✓ Cell Isolation

General Liquid Handling

- ✓ Cherry Picking

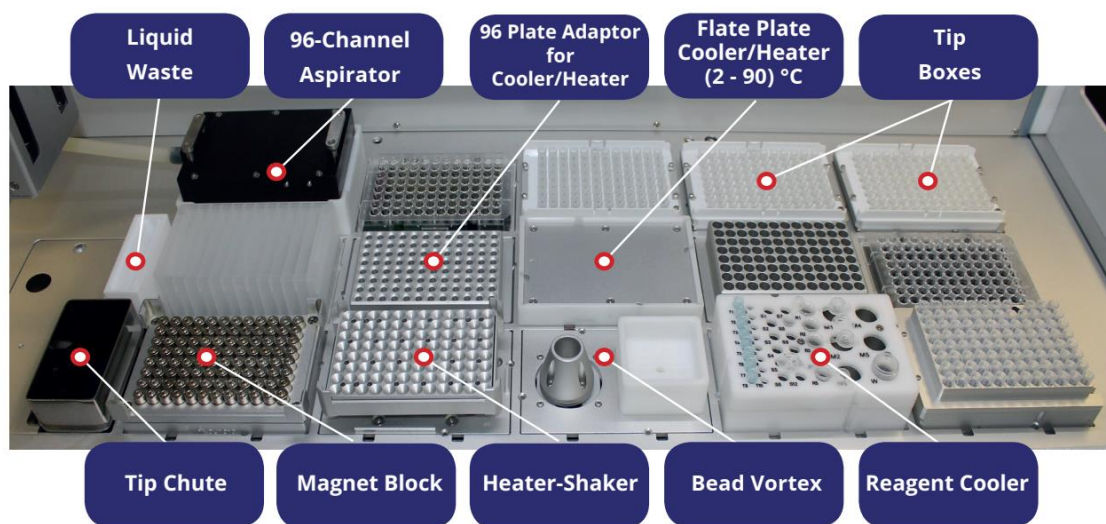
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- ✓ Reagent Pooling
- ✓ Tube to plate transfer
- ✓ Serial and parallel dilution
- ✓ Plate transfer, reformatting and replication

Characteristic Feature

- Magnetic bead vortex ensures homogenous bead suspension
- ✓ Highly accurate air-displacement technology
- ✓ 4- or 8- channel liquid handling head with single channel function
- ✓ Temperature regulation modules including
 - Plate heater/ cooler block
 - Reagent cooler block
 - Shaker with integrated heater
- ✓ 96-tip aspirator reduces protocol time and tip usage
- ✓ ReagentDrop module provides accurate dispensing of bulk reagents allowing conservation of reagents and tips
- ✓ HEPA Filtered UV/Fluorescent light enclosure with automatic door minimizes the risk of samples contamination
- ✓ Open system - compatible with diverse kit chemistry and labware including 96- and 384- well plates
- ✓ User-friendly software interface

Deck Layout



Sample VERSA 1100 Gene Deck Layout

1.VERSA 1100 NAP 4/8 Channel

VERSA 1100 NAP 8 Channel

Aurora VERSA 1100 NAP 8CH was used to extract Genomic DNA from blood using NucleoMag Blood 200 ULL Kit from MN Company. Aurora has

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developed an automation program that is optimized to maximize DNA yields and reduce the risk of contamination. The concentration of DNA was high, and the amount of DNA extracted from blood was more than 10 mg per 200 μ L. Secondly, the extraction quality is excellent; the 260/280 ratio of each sample is about 1.8, which indicates that the extracted DNA sample is of high purity. The product can be directly used in downstream experiments such as PCR and quantitative PCR.

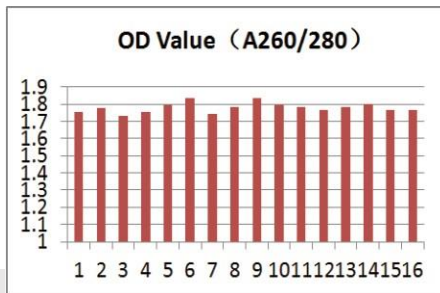
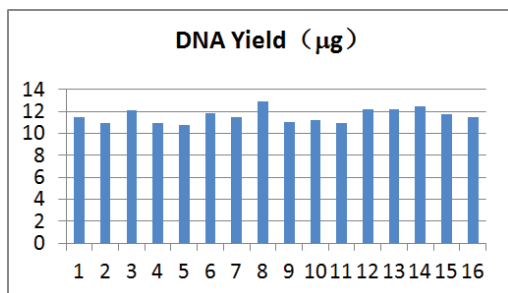


Figure1: DNA extraction analysis

Figure 2: DNA purity analysis

VERSA 1100 NAP 4 Channel

VERSA 1100 Four-Channel Independent Motion Nucleic Acid Extraction Workstation

Aurora's VERSA 1100 4-Channel Independent workstation features four 1000 μ L syringe pipettors, each with independent Z axis movement capable of working out of source samples tubes. This system features four 1000 μ L syringe pipettors, each with independent Z-axis movement and volume control. The built in liquid level sensing and clot detection features are ideal for handling blood samples where volumes vary and clots are often present. The VERSA 1100 4- channel independent workstation is designed to satisfy the needs of any lab that has high blood sample processing demand.

2.VERSA 1100 96 channels nucleic workstation

Aurora's 96-Channel Liquid Handling Workstation is capable of processing up to 96 samples in parallel with the flexibility that is required by biological assays. VERSA 1100 96 Channel Workstation is an open system, which is compatible with various microplate formats and labware, and can easily scale up your applications. The 96-Channel Liquid Handling Workstation comes with proprietary modules suitable for various magnetic bead based biological applications and high throughput liquid handling, such as nucleic acid purification, sequencing reaction setup, PCR/RT-PCR setup, plate replication and reformatting, and serial and parallel dilution.

	Basic Configuration	Recommended Configuration
Syringe Pipettor (Disposable Tips)	8-channel	8 or 96-channel
Reagent Drop Channnels (Multiple Reagents)	5	8
Liquid-Level Sensing	Optional	Optional
Plate Shaker	1	1
96-tip Aspirator	1	1
Temperature Regulation Block	2	2
Reagent Cooling Block	1	1
Magnetic Block	Included	Included
Plate Gripper	Included	Included
HEPA / UV/ Fluorescent Light Enclosure	Optional	Included
Length	98.5 cm / 38.8 in	98.5 cm / 38.8 in
Depth	75.2 cm / 29.6 in	75.2 cm / 29.6 in
Height	89 cm / 35 in	108.2 cm / 46.2 in
Weight	162 kg / 357 lbs	225 kg / 496 lbs
Deck Capacity	15	15