



Automated Food Safety Monitoring using VERSA™ Mini NAP Workstation

Food contamination by pathogens, as well as other organic and inorganic toxins can lead to serious illness and even death. Many strains of food-borne bacteria are monitored by food inspection authorities, government run agencies, research facilities and academic laboratories all over the world. By sampling products and testing for pathogens, monitoring agencies are able to identify and remove contaminated food from the food supply. Investigative surveillance will also identify the long-term effect of chronic exposure to contaminants.

Monitoring contaminant levels in biofilms is an extremely valuable tool to ensure proper food safety. Such screens involve culturing the strain, followed by extraction, purification and amplification of genomic DNA or RNA. Polymerase chain reaction (PCR) is a highly sensitive technique, enabling researchers to rapidly select and amplify a specific target sequence from a background of non-related sequences. Manual techniques are error-prone with low throughput and unreliable results. Automation improves accuracy, throughput, versatility and reliability while simultaneously reducing costs.

Aurora's VERSA™ Mini NAP Workstation provides a fully-automated, customizable all-in-one solution. This high precision instrument may be fitted with a wide range of available accessories including electronically controlled plate heating and/or cooling blocks and a special UV/HEPA hood to minimize contamination. The VERSA™ Mini NAP automatically completes all steps from isolation through to PCR setup in thermocycler plates, carousels or ampligrad slides. Adaptors are available for a wide range of commercially available plate types and thermocycler platforms. Easy-to-use VERSAware software allows the user to fully automate the aspiration and dispensing steps, and allows precise temperature control where required.



VERSA™ Mini NAP Workstation with carousel adaptors enclosed in a UV/HEPA hood



VERSA™ Mini NAP Workstation with plates on deck

Features

- Customized UV/HEPA hood minimizes contamination
- Magnetic bead and / or Vacuum manifold (optional) enables specialized protocols & extraction kits
- Electronically controlled reagent cooler maintains reagent integrity
- Electronically controlled plate cooler (optional) protects sample integrity
- Electronically controlled plate heater (optional) enables specialized protocols including "hot start" PCR
- Shaker or shaker with heater enables specialized protocols
- Interchangeable deck positions support wide range of carousel/plate PCR preparation & setup options enabling integration with your laboratory equipment

Throughput

- Nucleic acid extraction time for 96 samples is 3 hours. PCR reaction setup time for one 96-well plate is 30 minutes. For two 96-well plates or two 384-well plates is 60 minutes and 240 minutes respectively. Throughput for up to 1000 PCR reactions/day.

Workstation

- See the VERSA™ Mini NAP Workstation flyer for detailed product information or contact your dedicated Aurora sales representative
- For additional protocol information contact your dedicated Aurora sales representative

NOTE: Instrument specifications may change without notice as an ongoing effort of product improvement.

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