Liquid Handling Application

Automated Avian Flu RNA Isolation & Extraction

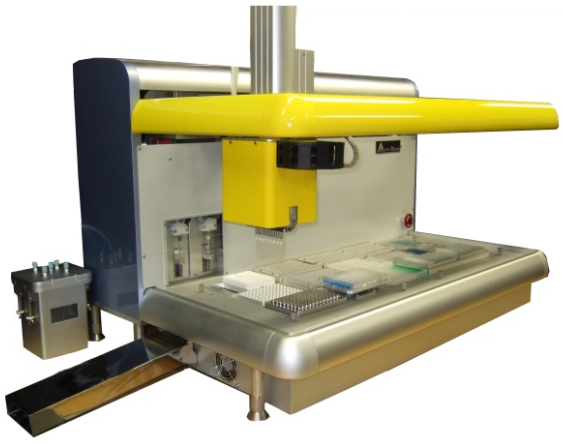
Avian influenza viruses are found primarily in birds, but natural infections with influenza A viruses have been reported in a variety of animal species including humans and pigs. Problems arise when highly pathogenic viral subtypes of the virus that are adapted to avian hosts are accidentally transmitted into a human host leading to a global pandemic. Therefore it is necessary to preemptively detect existing strains in order to map their progression in the wild. The viral infection can be detected using either ELISA or PCR, once DNA has been isolated from a sample. The detection process for end-point PCR and realtime PCR involves the isolation of viral genome (RNA), conversion of RNA into cDNA, followed by amplification of the specific target(s) from the DNA.

Aurora's dedicated VERSA™ Gene workstation fully automates the isolation and reverse transcription of avian influenza RNA. Automation minimizes the time involved in sample preparation, decreases cross contamination, and reduces handling errors, subsequently improving throughput while decreasing costs. This workstation provides automated solutions for easy validation and standardization of extraction, purification and PCR setup, supplying an accurate, rapid, and affordable solution to your diagnostic needs.

Aurora's VERSA™ Gene Workstation is designed to avoid any chance of sample cross-contamination. The integrated tip changer as well as the use of autoclavable tips and parts greatly reduce cross-contamination issues. Further more, the use of filter-tips and barriers ensures practically "zero" cross-contamination. As a final level of security, Aurora offers the option of a UV/HEPA hood.

Features:

- Multichannel head with either 8 channel or single channel capability.
- Disposable tips
- Volume range: 1µL-1000µL
- Plate transport system
- Magnetic block available as an option
- Plate Shaker
- Target plate cooler/heater
- Reagent cooler
- 15 deck positions
- Operated with user-friendly VERSAware software
- Nucleic acid isolation throughput is 1 hour and 40 minutes.



Product Specifications	
Length	1100mm
Depth	780mm
Height	662mm
Weight	60 kg
Deck Capacity (Plates)	3 X 5 = 15
Robotic Positions (all axes)	± 100 µm
Channels/arm	8 channel/arm

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

For North American Sales:
Aurora Biomed Inc.
email: info@aurorabiomed.com **website:** www.aurorabiomed.com
Address: 1001 E. Pender St., Vancouver BC Canada V6A 1W2 **Phone:** 1.800.883.2918; 604-215-8700 **Fax:** 604-215-9700

For International Sales:
Aurora Instruments Ltd.
email: info@aurora-instr.com **website:** www.aurora-instr.com