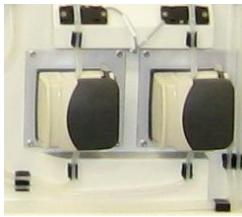


BioPurification System

Automated Viral Method Development With Continuous Flow Ultracentrifugation

NEW !



Peristaltic pumps
for sample flow



Precision syringe
pumps for buffer flow

AW Promatix 1000™

- **Protocol optimization - higher recovery & purity**
 - All run parameters can be modified; temperature regulation
- **Simple Scale-up of R&D methods to production**
 - Sample quantity from 50 mL to several liters
- **Quality Control - sample characterization profiles**
- **Automated sanitization cycle - no contamination**
- **Safety for sample & user – Multipoint monitoring**

The **AW Promatix 1000™** uses buoyant density separation to purify, accumulate, fractionate and enrich sub cellular components, viruses and virus like particles in a single step. The fully automated **AW Promatix 1000™** offers complete control of all the process parameters including temperature regulation for the entire procedure.

The **AW Promatix 1000™** can operate with small to large volumes of sample, utilizing continuous flow ultracentrifugation. This versatile, robust and proven technology has been very successful in vaccine purification in which Alfa Wassermann has been a recognized leader for around forty years.

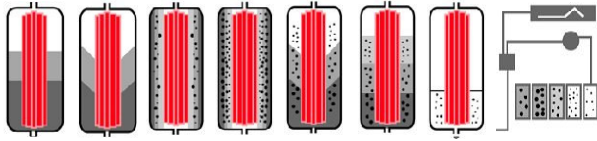
It has been estimated that about 90% of all flu vaccines are being purified using Alfa Wassermann technology.

ALFA WASSERMANN
Separation Technologies

Automated Viral Method Development With Continuous Flow Ultracentrifugation

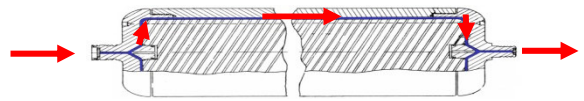
AW Promatix 1000™

Operating Principle



- Fill rotor with density gradient material
- Accelerate the rotor so the gradient reorients
- At set speed feed product fed continuously into the rotor
- Allow the particles to concentrate in bands; fluid exits
- Decelerate the rotor so the gradient reorients
- Particles remain separated in the bands
- Collection fraction with optional 96-well plate or test tubes
- High purity fractions are collection based on density

Comparison with Lab Ultra



- Aimed at research and industry : R&D - QC – Production
- Full automation, from sample feed to fractions collected
- Gradients identical to those used in production
- Automated reproducible gradient formation and sanitization
- Identical rotor geometry to production centrifuges
- Scale-up across a range of rotors, AW patented technology
- Maximum performance available with all volumes
- Data stored on hard drive, run-to-run comparison reports

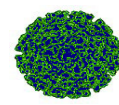
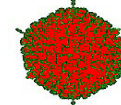
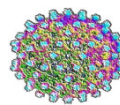
Versatility & Automation

- Total control over all protocol parameters
- Includes banding speed and time
- Real time visualization of runs
- Immediate advice on action if errors occur
- Built-in or external automated fraction collection option
- Automated washing and sanitization
- Batch mode down to 50 mL of sample
- Continuous flow mode with up to several liters of sample
- Replaceable lines eliminate cross-contamination
- All fluid areas temperature regulated 4° to 10°C
- Created protocols transferable to production

Applications

Viral Vaccines

Bacterial Vaccines



Proteins

Viral Vectors

Adenovirus Baculovirus Hepatitis Herpes HPV

Influenza Mumps Polio Pox Rabies Semliki

Clarification

Concentration

Purification

Separation

Linear Rotor Scale-up Advantages



- No cross-technology calculations
- No refinement of the parameters or procedure
- No increase in production time
- No re-testing nor re-evaluation with scale-up
- No revalidation with larger (or smaller) volumes

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