

LATERAL FLOW ASSAY DEVELOPMENT & MANUFACTURING



Ethos
Biosciences

ETHOS BIOSCIENCES / AMERICAN BIONOSTICA

For more than 20 years, the American Bionostica (ABI) team has manufactured protein and peptide-based lateral flow diagnostics for OEM clients in food safety, agricultural, environmental, veterinary medical, biodefense and clinical sectors. Qualitative or quantitative schemes are supported with colloidal gold, polymer ("latex") and fluorescent nanoparticle carriers and visual, automated platform and portable reader technologies. With its acquisition in 2021, ABI/Ethos Biosciences capabilities have expanded to include europium chelate microsphere formats for use with time-resolved fluorescence readers.

Our highly-specialized lateral flow manufacturing operations are located within the 126,000 square foot Ethos Biosciences facility in NJ, which houses reel-to-reel dispensing and drying, sensor-based test strip cutting, reel-to-reel lamination and robotic cassette assembly and pouch filling/sealing equipment. The production line is supported by a customized Dry Room, state-of-the art dehumidification system, and QC laboratory.

AUTOMATION BY THE NUMBERS

2 Drying towers with sensors in 6 zones

Print up to 7 lines / strip

Dispense up to 670 strips / minute

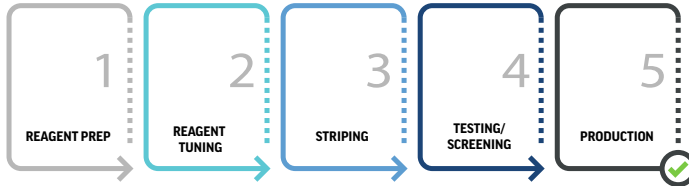
Produce 20 – 30 cassettes / minute

Fill and seal up to 40 pouches / minute

LATERAL FLOW CMO PROCESS

Our lateral flow CMO process is designed for seamless project onboarding and optimal manufacturing outcomes.

SAMPLE WORK FLOW



We offer:

- Defined technology transfer process with our experienced team;
- Manufacturing process troubleshooting, optimization & validation;
- Continual project reporting and client collaboration;
- Prequalification test/assay samples prior to manufacturing process finalization;
- Scaling capability.

We work in partnership with **Bangs Laboratories**, a leading manufacturer of polymer, silica and magnetic microspheres with 35 years of experience supporting IVD clients through microsphere synthesis and fine particle analysis.

Ask about our nanoparticle reagents and lateral flow device consumables to assist you with your next project.

OFFERING:

Fluorescent Nanoparticles
Dyed Nanoparticles
Colloidal Gold
Membranes
Pads
Cassettes
Buffers



