

## Lateral Flow Assay Components & Services

Ethos Biosciences is a manufacturer of buffers, reagents, microplate assays and LFAs for retail, bulk, private label and OEM customers. Bangs Laboratories is a leading manufacturer of colloidal gold and polymer, silica, magnetic, and fluorescent nano- and microparticles.

As part of the Ott Scientific family of companies, we are working in partnership to offer test developers our collective expertise in microparticle formulation and synthesis, reagent development and contract LFA manufacturing.

### LFA COMPONENTS

#### DESCRIPTION

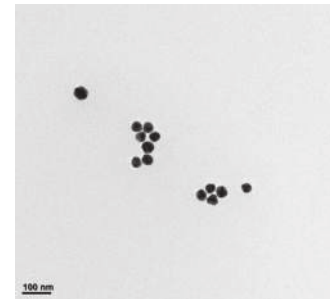
Ethos provides a cost-effective Lateral Flow Assay Starter Kit, which includes a selection of conjugate / sample pads and nitrocellulose membranes in addition to vinyl backing cards and cassettes.



### COLLOIDAL GOLD

#### DESCRIPTION

Our colloidal gold offerings feature uniform gold nanoparticles in preservative-free DI water. Manufacturing and QC are conducted under our ISO 13485:2016 quality management system, and superior performance has been demonstrated through in-house and customer-manufactured LFAs.



#### CHARACTERISTICS

Nominal Diameter:	40nm	30nm	20nm
Diameter Spec (TEM):	37 - 43nm	28-32nm	18-22nm
Optical Density A520nm:	OD1, OD5 (~0.01%, 0.05% solids)		

### EUROPIUM CHELATE FOR TIME-RESOLVED FLUORESCENCE

#### DESCRIPTION

Bangs Labs' highly-fluorescent europium(III) nanoparticles offer exceptional functionality and stability for the development of diagnostic reagents. They have been utilized to develop highly sensitive assays in lateral flow and microplate formats, and are compatible with commercial europium chelate TRF readers. They are supplied in aqueous suspension at 1% solids (10mg/mL).



#### BANGS LABORATORIES

Cat. #	Description
FCEU001	0.10µm Europium Chelate COOH
FCEU002	0.20µm Europium Chelate COOH
FCEU003	0.30µm Europium Chelate COOH
FCEU004	0.40µm Europium Chelate COOH
21960	Europium Chelate COOH Sampler Pack 1mL of 0.10µm, 0.20µm, 0.30µm, 0.40µm
GOLD40	40nm Gold Colloid OD1 or OD5
GOLD30	30nm Gold Colloid OD1 or OD5
GOLD20	20nm Gold Colloid OD1 or OD5

#### ETHOS BIOSCIENCES

Cat. #	Description
LFK001	Lateral Flow Starter Kit

## Lateral Flow Assay Development & Manufacturing

Ethos Biosciences and Bangs Laboratories present our collaborative lateral flow CDMO. Both companies bring core manufacturing competencies and decades of real-world experience in test and assay development to the endeavor, offering customers unrivalled access to our collective expertise and capabilities.

With more than 20 years of CDMO lateral flow and ELISA services, we continue to expand our capabilities and capacity for this critical portion of the medical device and diagnostics supply chain.

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 customization 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**

We look forward to working with you! Contact us to start the discussion.



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