



Scale your field-forward defense capabilities with molecular testing in the palm of your hand.

Originally developed for the US Government, Biomeme's Franklin™ ISP thermocycler and ISP test cartridges provide you with a field-forward, lightweight, hand-held, internal battery-powered, small footprint packable, decentralized molecular lab with integrated sample prep enabling multiplex real-time target detection and differentiation any place, any time. Available for your CBRN, Human Diagnostic, Industrial Hygiene, Vector Surveillance, and Environmental Health CONOPS.

Unique Advantages to Support Your Scale-Up

In addition to the benefits below, Biomeme manufactures its tests domestically in the United States further securing its supply chain.



Field Ready

Decentralize your Lab.
On the go and in the field.

- Runs on internal battery/ 60hz AC PWR
- Standard MilSpec battery pack compatible
- Solar to DC Converter compatible



Maximum Shelf-Stability

Hand-held DNA analysis with shelf-stable reagents that are lyophilized for maximum shelf-life.

- Single-use ISP test cartridges include all required multiplexed molecular assay components



Ultra-Portable Design

Compact, lightweight, and optimized to enable a full day's work in the field on a single charge. Easy to use with minimal steps.

- Weighs 4.2 lbs/1.9 kg
- 185.67 mm W x 128.5875 mm H x 114.11 mm



Gold Standard Performance

Performs lab-quality testing at the point of need, but requires no laboratory equipment or special experience.



Rapid Results

Sample-to-answer in 30~60min, depending on test.



Easily Adaptable

Flexibility to create customized assays and sample prep protocols quickly to meet your needs.

CURRENTLY AVAILABLE TESTS

Biological Warfare Panel*

Instrument SKU: 1000009
Consumable SKU: 3000140

14 Biowarfare agents targeted

- *Bacillus anthracis*
- Botulinum neurotoxin A
- Botulinum neurotoxin B
- *Brucella species*
- *Burkholdera mallei*
- *Burkholdera pseudomallei*
- *Coxiella burnetii*
- *Francisella tularensis*
- Orthopox viruses
- Ricin toxin gene
- Staphylococcal enterotoxin B gene
- Variola virus
- Venezuelan equine encephalitis virus
- *Yersinia pestis*

Biological Warfare Simulant Panel*

SKU: 3000141

3 Biowarfare simulant organisms targeted

- *Bacillus thuringiensis subsp. kurstaki*
- *Bacillus thuringiensis subsp. israelensis*
- *Bacillus globigii*

Biological Warfare Training Panel*

SKU: 3000514

Keep current on your test sampling and running techniques. These cartridges contain all of the items needed to provide training for real-world scenarios. The training cartridge is a single-use mock test cartridge that looks and functions like an authentic ISP test cartridge, but does not contain expensive, short-lived reagents.

*These defense articles are controlled for export under the International Traffic in Arms Regulations (ITAR), administered by the U.S. Department of State, Directorate of Defense Trade Controls. The transfer of any hardware or technical data controlled by the ITAR to any unauthorized persons, requires prior written approval for from the U.S. Department of State.

TESTS AVAILABLE IN 2023

Food & Water-Borne Pathogen Panel

SKU: 3000661R

21 pathogens targeted

- *Campylobacter spp.*
- *Clostridium Perfringens*
- *Clostridium Botulinum*
- *Clostridium Difficile*
- *Cryptosporidium spp.*
- *Enterococcus faecalis*
- *Escherichia coli*
- *Escherichia coli O157:H7*
- *Giardia spp.*
- Human fecal indicator bacteria
- *Legionella spp.*
- *Listeria monocytogenes*
- Norovirus
- *Salmonella enterica*
- *Schistosomatidae*
- *Shiga toxin-producing E.coli (STEC)*
- *Shigella spp.*
- *Vibrio cholerae*
- *Vibrio parahaemolyticus*
- *Vibrio vulnificus*
- *Yersinia enterocolitica*

Mosquito Vector-Borne Pathogen Panel

SKU: 3000506

5 pathogens targeted

- Yellow fever virus
- Chikungunya virus
- Dengue virus
- Zika virus
- *Plasmodium* (Malaria)

XCEL™ Respiratory Test

SKU:3000631R

3 pathogens targeted

- SARS-CoV-2 Orf1ab and N genes
- Influenza A virus
- Influenza B virus

Host Response: HR-B/V

SKU: 3000513

25 gene targets and controls to differentiate whether someone's respiratory infection is bacterial or viral using a simple fingerstick blood sample.



For Research Use Only. Not for use in human or veterinary diagnostics. IVD products are currently in development at Biomeme and not yet available for sale in the US. Biomeme products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or provide a service to third parties without the written approval of Biomeme, Inc.

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