



Delivering Bio Micro Solutions

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Name *

Position

Title

Company

Address

Address

City

State/Country*

Zip/Mail Code

Phone*

Email*

Preferred method of contact Phone Email

ALINE CAPABILITY MENU

Application* (check all that apply)

Cell culture/analysis

- Stem Cell
- Human Cell
- Mammalian Cell
- Primary
- Immortalized
- Tissue or organ clusters
- Bacteria
- Bio-film
- Yeast
- Other, please specify

Bio/Chemical Monitoring, Synthesis or Analysis

- Enzyme assay
- DNA/RNA analysis incl. PCR
- Personalized gene diagnosis
- Production process control
- Production quality control
- Industrial waste analysis
- Catalysis
- Chemical threat monitoring
- Continuous monitoring
- Chemical synthesis
- Fluid control and analysis
- Gas control and analysis
- Biological threat monitoring
- Other

Host Instrument or System Requirements

- | | |
|--|--|
| <input type="checkbox"/> Vacuum filling | <input type="checkbox"/> Automated control of pumps and valves |
| <input type="checkbox"/> Pressure flow | <input type="checkbox"/> Injection loop for sample loading |
| <input type="checkbox"/> Electro-Osmotic Flow | <input type="checkbox"/> Temperature control |
| <input type="checkbox"/> Positive displacement pumping | <input type="checkbox"/> <u>Expected volumetric flow rate</u> |
| <input type="checkbox"/> Centrifugal force driven | <input type="checkbox"/> 0.1 - 1 uL//min |
| <input type="checkbox"/> Humidity Control | <input type="checkbox"/> 1.0 - 100 uL/min |
| <input type="checkbox"/> Gas Exchange/Control | <input type="checkbox"/> 100 - 1.0 mL/min |
| | <input type="checkbox"/> Other <input type="text"/> |

Device Functional Components

- | | |
|--|--|
| <input type="checkbox"/> Cell lysis | <input type="checkbox"/> Bead-based displacement assays |
| <input type="checkbox"/> Perfusion | <input type="checkbox"/> Sample prep |
| <input type="checkbox"/> Chemotaxis | <input type="checkbox"/> Whole blood separation |
| <input type="checkbox"/> Fill and measure a fixed volume | <input type="checkbox"/> Multiplexed analysis |
| <input type="checkbox"/> Continuous flow analysis | <input type="checkbox"/> Filtration |
| <input type="checkbox"/> Multi-step assay | <input type="checkbox"/> Reagent Storage |
| <input type="checkbox"/> Kinetics | <input type="checkbox"/> Reservoirs/On board reagents/waste chambers |
| <input type="checkbox"/> On-board valves | <input type="checkbox"/> Other <input type="text"/> |

Sample Type

- | | |
|---|---|
| <input type="checkbox"/> Cells or cell lysate | <input type="checkbox"/> Buffer with no particulate |
| <input type="checkbox"/> Cell culture media | <input type="checkbox"/> Buffer with particulate |
| <input type="checkbox"/> Blood, or other body fluid | <input type="checkbox"/> Other <input type="text"/> |

Sample Volume

- 1 - 10 uL
 10 - 100 uL
 Other

Wash or Carrier Fluids

- Aqueous buffer with or without detergents
 Alcohols (methanol, ethanol, isopropanol)
 Organics (hexane, fluorocarbons, aromatics)
 Other, Please specify

Preferred Type of External Interconnect

- 1/16" OD tubing studs
 Hose barb connections
 O-ring connections
 Other, please specify

Preferred Dimensions/Volumes

Contained volume of reagent, specify
Expected channel dimensions:

- 10 - 100 um
 100 um - 1mm
 Desired overall dimensions

Sensors/Detectors

Electrochemical/electro-active

- | | |
|---|--|
| <input type="checkbox"/> Printed circuit board | <input type="checkbox"/> Interdigitated electrodes |
| <input type="checkbox"/> Sputter or screen printed electroded | <input type="checkbox"/> Capacitance array |
| <input type="checkbox"/> Other <input type="text"/> | |

Optical Detection

- Fluorescence/Transmission ith excitation ≥ 350 nm
- Fluorescence/Transmission ith excitation ≤ 350 nm
- NIR
- Infrared

Other optical interface

- | | |
|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> Wave guide | <input type="checkbox"/> Fiber Optic |
| <input type="checkbox"/> SPR | <input type="checkbox"/> Other |
| <input type="checkbox"/> ATR | <input type="text"/> |

Other Features/Special requirements

- Sterility (EtO available)
- Surface compatibility requirements for cell culture, Please specify
- Surface energy
- Gas Permeability
- Other

Consultation*

- Concept development
- Prototype development
- Production Requirement
- Looking for partner for SBIR or STTR applications
- Other

Schedule*

- Need immediate quote
- Need consultation in 48 hours
- Need consultation in 5 business days
- Other

Product Volume*

Prototype quantities

Organization*

Size of Organization*

Employees

Preferred Method of Payment