

# Caliper Life Sciences - LabChip GXII



## GENERAL DESCRIPTION:

The LabChip GXII is a complete solution for consistent and precise analysis of protein, DNA, or RNA samples, and is an ideal instrument for protein research users. Whether it is quantitating monoclonal antibody titers, optimizing protein expression conditions, or rapidly screening IgG N-glycan profiles, the LabChip GXII is the perfect bench top tool to accelerate your research and meet your goals. Leveraging microfluidics technology the LabChip GXII eliminates the need to handle time consuming SDS page gels, and provides superior results for less time and money.



## TECHNICAL DESCRIPTION:

Electrophoretic separations of protein, DNA, or RNA utilizing laser-induced fluorescence in a microfluidic channel.

## CONTACT INFORMATION

Caliper Life Sciences  
 68 Elm St  
 Hopkinton, MA 01748  
 POC: Richard P. Bunch Senior Product Manager, Microfluidics  
 508-497-2237

## COST

- \$52,000-\$109,500/system
- \$0.35-\$1.50/analysis

## Tier Selection

Final tier assignment is based on overall product score.

- Top Tier
- Second Tier
- Third Tier
- ◐ Fourth Tier
- Bottom Tier

### RANKINGS

	Biological	Chemical	Radiological
<b>FIELD USE System</b>			
<b>MOBILE Laboratory</b>			
<b>DIAGNOSTIC Laboratory</b>			
<b>ANALYTICAL Laboratory</b>			

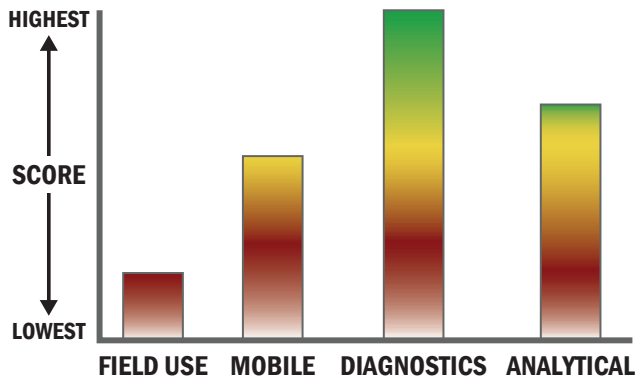
## Survey Source

Vendor and Internet Supplied Information



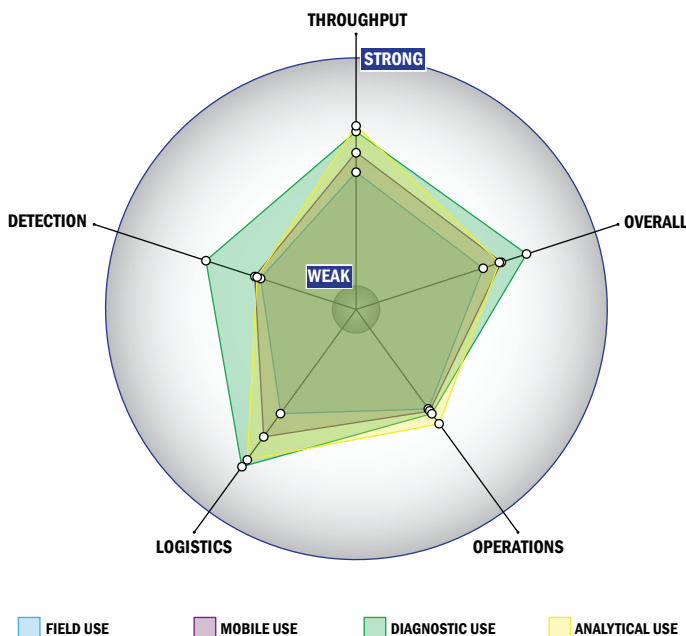
## Scoring Analysis

System scores are compared across the four scenarios and ranked from highest to lowest.



## Impact Chart

The Impact Chart is a spider graph representing specific categories and designed to give the reader a visual depiction of how a particular system is expected to operate across the four different scenarios. The score for each of the seven categories is presented as the percentage of the total possible score. Higher category scores extend the spokes of a graphic toward the outer edge of the chart. The area graphed for each of the four scenarios relates to how well the system performed in that scenario. Graphics for each of the four scenarios are super-imposed for ease of comparison.



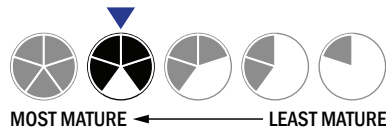
## Evaluation Criteria

### Throughput:

- 2 minutes or less for detection
- Multiple samples, multiple tests/sample per run
- 349-96 samples every 2 hours
- The system or device is currently fully automated
- 3 solutions, buffer, eluents, and/or reagents
- 3 components
- 1-2 steps are required for detection

### Logistics:

- Very brief (minutes-hours) training and minimal technical skills
- Approximately the size of a carry-on luggage suitcase
- Between 25 and 50 kg
- Wired connections are available
- System or device has 110V electrical requirement



### Operations:

- Can be used from 25 °C to 37 °C
- Components must be frozen (-20 °C)
- Device or system has peak performance at normal relative humidity conditions
- Between 1 to 6 months shelf life
- 5-10 years expected life
- Results can be viewed in real-time
- The system is not capable of autonomy
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

### Detection:

- Efforts are underway to achieve 510K clearance
- Possible the system could receive FDA approval, no current efforts at this time
- Less than 10 µL
- Superior specificity. System has a false alarm rate approaching zero (~0%)
- 1,000-10,000 ng per mL
- System does not detect spores