

ITEM OPPORTUNITY SYNOPSIS

Name of the item to be scouted: Quantitative Polymerase Chain Reaction (qPCR) machine

NAICS Code, if known:

Opportunities will be posted for 30 days unless another timeframe is given below.

Number of Days: 30

TECHNICAL INFORMATION

Describe the Item:

Please describe the item application/the end use of item. We want to order the real-time quantitative PCR (qPCR) comparable to Bio-Rad's CFX Opus Real-Time PCR system with the same robust, easy-to-use system used by researchers. We would like to use the 96-well (5-color detection) format. We want to order qPCR machine for the following features. Volume 10-50 ul Maximum ramp rate 5 °C/sec Average ramp rate 3.3 °C/sec Lid temperature 30-110 °C Temperature range 4-100 °C Gradient (Operational range) 30 -100 °C Temperature accuracy ± 0.2 °C of programmed target at 90 °C

Provide the item number if applicable: (N95 Mask vs Protective Mask).

Supplier Information:

Type of Supplier being sought (select from list below)

Manufacturer

Contract Manufacturer

Distributor

Other (please specify)

Reason for scouting submission (select from list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

Other (please specify)

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible) The real-time quantitative PCR (qPCR) comparable to Bio-Rad's CFX Opus Real-Time PCR system with the same robust, easy-to-use system used by researchers. The 96-well (5-color detection) format is good to use for our experiment. The following features are described for qPCR machine. Volume 10-50 ul Maximum ramp rate 5 °C/sec Average ramp rate 3.3 °C/sec Lid temperature 30-110 °C Temperature range 4-100 °C Gradient (Operational range) 30 -100 °C Temperature accuracy ± 0.2 °C of programmed target at 90 °C

Provide dimensions / size / tolerances / performance specifications of the item. W: 13 in; 33 cm D; 22 in; 56 cm Weight: 48 lb; 22 kg Note: If you plan to connect the CFX Opus system to the computer running CFX Maestro Software, ensure during setup that you have sufficient space near the system for the computer.

List required materials needed to make the product, including materials of product components, if applicable. We ordered the reagents and other materials separately. Plastic Consumables for CFX Opus 96 Systems These consumables are compatible with CFX Opus 96 systems. However, Bio-Rad recommends the consumables listed in Plastic Consumables for CFX Opus 96. n MLL9601 — Multiplate low-profile 96-well unskirted PCR plates with clear wells n MLL9651 — Multiplate low-profile 96-well unskirted PCR plates with white wells For optimal results, Bio-Rad recommends the following plate seals: n MSB1001 — Microseal 'B' adhesive seals, optically clear (strong adhesive-based) n MSC1001 — Microseal 'C' optical seals, optically clear (pressure-activated, adhesive-based) Primers/Probes designed by us.

Are there applicable certification requirements?

Yes

No

Please Explain:

Are there any applicable regulations that apply to the production of this item?

Yes

No

Please Explain:

Are there any other standards, requirements?

Yes

No

Please Explain:

Additional Comments:

Is there other information that would impact the item's performance or usefulness? Please explain.

Business Information

Volume and Pricing:

Estimated Potential Business Volume (i.e. #Units per day, month, year): 2 of 96 wells plates runs per week.

Estimated Target Price / Unit Cost Information: (flexible and negotiable not accepted)

We are not able to measure the estimated target price, because the item we produce is not consumable product, instead we will collect the data and will publish for public health related improvement.

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc) within 2 weeks

Describe packaging requirements (i.e., individually/ group packaging). Packaged Instrument Specifications lists the specifications of the packaged qPCR instrument. Specifications for the packaged CFX Opus Real-Time PCR System Parameter Specification Weight 57 lb; 26 kg Dimensions Depth: 28 in; 71 cm Width: 19 in; 48 cm Height: 19 in; 48 cm Individual items, including qPCR machines, must be packaged in cushioned rolls and solid styrofoam.

Where will this item be shipped? Chapel Hill, NC