

MEPNN Supplier Scouting Opportunity Synopsis

Item Information	
Scouting Number	2023-086
Item to be Scouted	Quantitative Polymerase Chain Reaction (qPCR) machine
Days to be scouted	30
Description	<p>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.</p> <p>We want to order qPCR machine for the following features.</p> <p>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</p>
State item to be used in	North Carolina

Contact Information	
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Last Name	Beak
Department / Company / MEP Center	Environmental Protection Agency
Bureau / Division / MEP Center Regional Office	

Supplier Information	
Type of supplier being sought	Manufacturer
Reason	2nd Supplier

Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p>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.</p> <p>The following features are described for qPCR machine.</p> <p>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</p>
Provide dimensions / size / tolerances / performance specifications for the item	<p>W: 13 in; 33 cm D: 22 in; 56 cm</p> <p>Weight: 48 lb; 22 kg</p> <p>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.</p>
List required materials needed to make the product, including materials of product components	<p>We ordered the reagents and other materials separately.</p> <p>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.</p> <p>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</p> <p>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)</p> <p>Primers/Probes designed by us.</p>
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Additional Technical Comments	

Volume and Pricing

Estimated potential business volume	2 of 96 wells plates runs per week.
Estimated target price / unit cost information (if unavailable explain)	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?	within two weeks
Describe packaging requirements	<p>Packaged Instrument Specifications lists the specifications of the packaged qPCR instrument.</p> <p>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</p> <p>Individual items, including qPCR machines, must be packaged in cushioned rolls and solid styrofoam.</p>
Where will this item be shipped?	Chapel Hill, North Carolina

Additional Comments

Is there other information you would like to include?