07 SEP 26 P2:37

STATE PROCUREMENT OFFICE
NOTICE & REQUEST FOR SOLE SOURCE

1. TO: Chief Procurement Officer

2. FROM: Health/State Laboratories Division
Department/Division/Agency

Pursuant to §103D-306, HRS, and Subchapter 9, Chapter 3-122, HAR, the Department requests sole source approval to purchase the following:

3. Description of goods, services, or construction:
One unit, Applied Biosystems 7500 FAST Real Time PCR System The instrument is supplied with a dedicated notebook computer platform (Intel Core Duo T2300E/1.66GHz or above) running the Windows XP Operating System. . The instrument is supplied with a Chemical Installation kit, calibration kits, an instrument verification kit and automated oligonucleotide design software. The instrument is UL approved and is manufactured in accordance with quality system requirements that comply with ISO 9001:2000 standards. The system also includes proprietary software to allow the simultaneous detection of up to five different fluorophores while providing absolute quantitation, relative quantitation, and allelic discrimination assays.

4. Vendor Name: Applied Biosystems Inc. Address: 850 Lincoln Center Road,Foster City, CA 94404	5. Price: $50,000.00
6. Term of Contract: (mm/dd/yyyy) From: 09/18/2007 To: 09/18/2008	7. Prior Sole Source Ref No. 07-063-J

8. Feature: The good, service, or construction has the following unique features, characteristics, or capabilities:
The instrument is an integrated system designed to perform both real-time PCR (polymerase chain reaction) and post-PCR (end-point analysis) The instrument is capable of analyzing 96 samples simultaneously in a 96-well plate format.while utilizing internal positive controls. Relative quantitation software incorporates the ability to simultaneously visualize and analyze up to ten 96-well plates of gene expression data.The instument is able to support two homogeneous reaction chemistries, the fluorogenic 5' nuclease assay using TaqMan probes and the SYBR Green I double stranded DNA binding dye chemistry. The instrument can perform quantitative real-time PCR applications in less than 40 minutes. The instrument utilizes a tungsten-hologen lamp rather than an expensive laser, a cooled charge coupled device (CCD) camera, and an optical system which utilizes multiple filter sets to enable multiple wavelength detection. The instrument software utilizes a multicomponenting algorthm to provide precise deconvolution of multiple dye signals enabling the simultaneous detection of multiple fluorphores with reduced crosstalk. The system incorporates a heated lid assembly to heat the top half of the plate assembly to prevent reflux in the sample wells. The heated lid assembly applies sufficient sealing force to the reaction plate to ensure effective sealing and minimizes reaction mixture evaporation. The instrument has a footprint of less than 237 square inches. The instrument has the demonstrated ability to distinguish between 5,000 and 10,000 template copies with a 99.7% confidence level.

Unique features needed - with spec # 1.

9. Essential features. How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work: PCR technology has proven to be highly accurate and reproducible in the identification of bacteria and viruses. Moreover, Real-Time PCR is more accurate, quantitative, and much faster than conventional PCR. FAST real-time PCR offers an even greater savings of time, material and labor. FAST real-time PCR is an especially powerful tool for the detection of viruses such as influenza. FAST real-time PCR quickly detects the presense of RNA or DNA without the necessity of maintaining expensive, and labor intensive, host cell lines. FAST real-time PCR technology allows for the rapid, accurate identification of organisms, essential in public health, where rapid identification of disease-producing organisms is critical for implementation of timely and effective intervention. CDC/LRN has chosen this platform on which to develop their new protocols. Procuring the same equipment that CDC uses to develop their protocols ensures that our testing will have maximum success. Additionally this choice also minimizes the costs and delays associated with developing and validating our own version

FAST Real-time PCR- faster than conventional systems
CDC uses same system. Any lab results more acceptable to CDC.

11. Alternate source. The following other possible sources for the good, service, or construction were investigated but do not meet our needs because: None.

12. **Direct any inquiries to:**	13 Phone Number:
Department: Health	453-5993
Contact Name/Title: Rebecca Sciulli, BT Microbiologist & Coord.	Fax Number: 453-5995

Expenditure may be processed with a purchase order: ☒ Yes ☐ No If no, a contract must be executed and funds certified.

Agency shall ensure adherence to applicable administrative and statutory requirements.

14. ***I certify that the information provided above is to the best of my knowledge, true, correct and that the goods, services, or construction are available through only one source.***

Department Head — Date: SEP 24 2007

Reserved for SPO Use Only

15 Date Notice Posted: 9/27/07

Submit written objections to this intent to issue a sole source contract within seven calendar days or as otherwise allowed from the above posted date to:
Chief Procurement Officer
State Procurement Office
P.O. Box 119
Honolulu, Hawaii 96810-0119

16. Chief Procurement Officer's comments:

17.

☒ **APPROVED** ☐ **DISAPPROVED** ☐ **NO ACTION REQUIRED** 10/4/07

Chief Procurement Officer Date