

STATE OF HAWAII  
REQUEST FOR SOLE SOURCE

STATE PROCUREMENT OFFICE  
STATE OF HAWAII

TO: Chief Procurement Officer

FROM: HEALTH / STATE LABORATORIES / EHASB / Environmental Microbiology Section  
(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:

Description of goods, services, or construction:  
  
Smart Cycler II PCR (Polymerase Chain Reaction) System: Processing block with 16 independent reaction sites, each with 4 color optical excitation and detection, computer, software, operating manual and starter kit (4 tube racks, 1 cooling block, 1 mini centrifuge, 25 uL reaction tubes).

Name of Vendor:	CEPHEID	Cost:	\$31,184.10
Address:	904 Caribbean Drive Sunnyvale, CA 94089-1302		(Lump-Sum)

Term of Contract:	From:	To:	Prior Sole Source Reference No:

The goods, services, or construction has the following unique features, characteristics, or capabilities:  
  
Cepheid Smart Cycler real time thermal cycler is an integrated DNA/RNA amplification and detection instrument which allows 16 independently programmable cycling protocols to be run simultaneously using proprietary microprocessor-controlled modules. The system allows rapid results showing nucleic acid amplification in real time using multiple fluorescent reporter dyes which may be used simultaneously. The system is highly flexible allowing multiple protocols to be run simultaneously on a single sample or the testing of multiple samples using a single protocol. The software allows multiple operators to simultaneously run separate analyses. The system is able to provide quantitative as well as qualitative analyses of unknown samples and the system is expandable allowing up to six modules (for a maximum of 96 different reactions which may run simultaneously).

How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work:

The use of 16 independently programmable modules will give the laboratory the flexibility to run 16 different protocols simultaneously to "fine tune" detection of a single organism in question or will allow up to 16 organisms to be detected simultaneously, or will allow the analysis of 16 different samples simultaneously. This will allow a faster turn around time for detection of pathogenic microorganisms from environmental samples and therefore allow a quicker response to protect public health. This system is among the fastest systems currently available. This will allow a faster turn around time for lab results.

The following other possible sources for the goods, services, or construction were investigated but do not meet our needs because:

- Applied Biosystems 7300 Real-Time PCR System
- Brinkman/Eppendorf Mastercycler line
- Bio Rad I-cycler

Other manufacturers allow multiple samples to be analyzed simultaneously (industry standard is 96) and allows real-time detection; however, they must all be run using the same protocol. The Smart Cycler allows multiple samples to be analyzed simultaneously, allows real-time detection and allows multiple protocols to be run simultaneously. Results will be available sooner and therefore action may be taken sooner.

Direct Questions To: Myron Honda

Phone: 453-6601

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.

Linda Rosen, MD, MPH OCT 18 2004

Department/Agency Head

Date

BY DIRECTOR OF HEALTH  
Title (If other than Department/Agency Head)

Chief Procurement Officer's Comments:

Please ensure adherence to applicable administrative and statutory requirements.

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

Approved

Denied

Adam S. Fajulu 10/29/04  
Chief Procurement Officer Date