

STATE OF HAWAII REQUEST FOR SOLE SOURCE

STATE PROCUREMENT OFFICE
STATE OF HAWAII

TO: Chief Procurement Officer

FROM: Department of Health / State Laboratories Division / Administration / Bioterrorism Response Laboratory
(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:

The LiquiChip Protein Suspension Array System is a high-throughput, multi-functional bead-based platform designed to perform immunoassay, enzyme assays, protein-DNA (Deoxyribonucleic acid) interaction assays, protein-protein interaction assays, and DNA hybridization assay. The LiquiChip system consists of a workstation which includes a LiquiChip reader, microplate handler, fluid module, Bar Code Reader, Computer and TFT Monitor, Operating System, and the LiquiChip System Software Version 2.2, 5 L LiquiChip System Fluid, and LiquiChip Control Bead Kit. A three-year warranty covers the LiquiChip Workstation which include parts and labor and 48-hour priority response. A complete in lab system training, installation and free software updates is provided.

Name of Vendor: Qiagen, Inc.
Address: 28159 Avenue Stanford
Valencia, CA 91355
(800) 426-8157 ext. 22383

Cost: \$42,560.00 - *Comp Sum*

Term of Contract:

From:

To:

Prior Sole Source Reference No.:

The goods, services, or construction has the following unique features, characteristics, or capabilities:

- The LiquiChip reader is a compact microbead analyzer that allows performance of rapid, sensitive immunoassay for West Nile Virus, St. Louis Encephalitis, or DNA hybridization assays BT agents and offers the potential to detect different analytes (Viruses or bacteria) on a single specimen. The multiplexing feature using different color-coded bead sets, allows measurement of up to 100 different reactions in a single sample.
- The LiquiChip system uses a proven 6xHis-Tag technology for the purification, immobilization and detection of recombinant proteins.
- The LiquiChip Microplate handler provides automated loading and processing of 96-well microplates an important feature that enhances efficiency and greater productivity in the BT Response Laboratory. This automated handling feature combined with the LiquiChip Fluid Module ensures the multiple microplates are processed without refilling the fluid bottles by monitoring fluid levels ensuring that the microplates do not run dry.
- The Qiagen LiquiChip System supports the integration of a Robotic Arm that enables full automation and "walk-away" capabilities ensuring high-throughput, standard processes, reproducibility, and greater productivity. Qiagen is the only vendor that supports and sells automation of the LiquiChip System.
- The Qiagen LiquiChip System Software Version 2.2 provides the integration of the system reader, LiquiChip handler, resulting in fully automated capability and is a unique feature of the Qiagen System.
- The Qiagen LiquiChip System includes three year of planned maintenance visits in addition to the three-year parts and service warranty.
- Qiagen provides dependable technical support and a 48-hour response time for technical questions.

S. S. Number: 04-58-M

REQUEST FOR SOLE SOURCE (Cont.)

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

- The LiquiChip System provides an automated, "walk-away" process which translates to efficiency and greater productivity. The system supports integration with a Robotic Workstation for higher efficiency and standardized processes. We considered these capabilities as critical in providing rapid diagnosis during a BT event or any other public health emergencies.
- The LiquiChip System comes with the latest version of the LiquiChip system software, Version 2.2 which would allow integration with a robotic workstation. This latest version of the software will enable us to have a validated FDA (Food and Drug Administration)-compliant analysis kit. Version 2.2 allows editing and deletion of standards enables the user to replicate samples and standards and the software can analyze samples in the same run separately or in combination with other samples. This functionality is very important in enhancing the Bioterrorism (BT) Response Laboratory's capacity to screen an environmental sample for different BT agents at the same time (multiplexing capability).
- The microbead-based assays have greater reproducibility which is ideal for Quality Assurance and Quality Control (QA/QC). The BT Response Laboratory operates under CLIA (Clinical Laboratory Amendment of 1988) regulations which require performance and documentation of QA/QC standards for all assays conducted in the laboratory.
- The Qiagen LiquiChip Suspension Assay System provides rapid Turn-Around-Time which is essential in rapid diagnosis of BT agents and other infectious disease agents such as West Nile Virus, St. Louis Encephalitis, Dengue Virus, to name a few.
- It allows single-well processing which is important for the end-user in determining if the experimental design is effective before using a whole plate and thus possibly losing critical samples.
- The three-year warranty with 48-hour response time is very important to ensure continuity of laboratory operations especially during a BT event or an outbreak situation.

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

Bio-Rad and InoVa. None of these companies support the robotic integration which is important in enhancing our capacity for rapid and timely BT Response.

Direct Questions To: Rebecca H. Sciulli Phone: (808) 453-5993 Fax: (808) 453-5995
Bioterrorism Preparedness Microbiologist & Lab Coordinator

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.

Janet Kadonis 4-12-04
Department / Agency Head Date

Deputy Director
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 J. Fyfe 5/14/04
Chief Procurement Officer Date
S.S. Number: 04-58-M

STATE OF HAWAII NOTICE OF SOLE SOURCE

The Chief Procurement Officer is in the process of reviewing the request from the Department of Health, State Laboratories Division, Bioterrorism Response Laboratory for the sole source purchase of the following goods, services, or construction:

The LiquiChip Protein Suspension Array System is a high-throughput, multi-functional bead-based platform designed to perform immunoassay, enzyme assays, protein-DNA (Deoxyribonucleic acid) interaction assays, protein-protein interaction assays, and DNA hybridization assay. The LiquiChip system consists of a workstation which includes a LiquiChip reader, microplate handler, fluid module, Bar Code Reader, Computer and TFT Monitor, Operating System, and the LiquiChip System Software Version 2.2, 5 L LiquiChip System Fluid, and LiquiChip Control Bead Kit. A three-year warranty covers the LiquiChip Workstation which include parts and labor and 48-hour priority response. A complete in lab system training, installation and free software updates is provided.

Vendor: Qiagen, Inc.
Address: 28159 Avenue Stanford
Valencia, CA 91355
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Term of Contract:	From:	To:	Cost: \$42,560.00
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Direct any inquiries to:		
Department:	Health, State Laboratories Division Bioterrorism Response Laboratory	Phone Number: (808) 453-5993
Contact Name/Title:	Rebecca H. Sciulli Bioterrorism Microbiologist & Coordinator	Fax Number: (808) 453-5995
Address:	2725 Waimano Home Road Pearl City, Hawaii 96782	



Date Notice Posted: April 14, 2004

A copy of this notice of sole source shall be posted by the Chief Procurement Officer and the purchasing agency in an area accessible to the public, at least seven (7) calendar days prior to any approval action.

Submit written objections to this notice to issue a sole source contract within seven (7) calendar days from the date this notice was posted to:

Chief Procurement Officer
Office/Agency _____
Address _____

S.S. No. 04-58M