



**STATE PROCUREMENT OFFICE
NOTICE & REQUEST FOR SOLE SOURCE¹⁵ JAN 29 08:09**

ADMINISTRATION
STATE PROCUREMENT OFFICE
STATE OF HAWAII

TO: Chief Procurement Officer

FROM: Health/State Laboratories Division
Name of Requesting Department

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

1. Describe the goods, services, or construction to be procured.
Life Technologies Corporation (Invitrogen and Applied Biosystems are now Life Technologies) 1 Unit, Applied Biosystems 7500 FAST Dx Real Time PCR System with notebook computer that runs the unit installed with SDS software version 1.4. The ABI 7500 FAST Dx System is supplied with a User Manual, precision plate holder for tubes/srips; one-year SVC OQPQ and one year warranty for parts, labor, travel and one service engineer visit at 6-months after installation.

2. Vendor/Contractor/Service Provider Name: LIFE TECHNOLOGIES CORPORATION	3. Amount of Request: \$65,000.00
4. Term of contract (shall not exceed 12 months), if applicable: From: CPO APPROVAL To: ONE YEAR	5. Prior SPO-001, Sole Source (SS) No.: SS 14 0825

6. Describe in detail the following:

a. The unique features, characteristics, or capabilities of the goods, service or construction.
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-wel 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 instrument is able to support two homogeneous reaction chemistries, the fluorogenic 5' nuclease assay using TaqMan probes and 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-halogen 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 (See Attached

b. How the unique features, characteristics or capabilities of the goods, service or construction are essential for the department
The ABI 7500 FAST DX is a third generation rti-PCR-based platform. This is the only FDA-cleared PCR instrument that we can use for Swine Flu Testing. The SLD currently own 5 ABI 7500 FAST DX instruments but one will be dedicated for ebola virus testing which requires enhances biosafety level and will be installed in a BSL-3 suite. During respiratory season, 2 units are dedicated to influenza testing while the other units are used for a variety of infectious diseases including almost all of the Laboratory Response Network (LRN) assays, West Nile Virus, Measles/Mumps and Dengue Virus. The addition of one more unit will allow the State Laboratories to perform additional testing with minimal operational changes in the event of an ebola outbreak or increased surge capacity. The ABI 7500 FAST DX will allow the SLD to enhance diagnostic capacity to monitor other infectious disease activities that could rapidly affect Hawaii and the U. S. mainland.

For Chief Procurement Officer Use Only

Date Notice Posted: 1/30/15

Submit written objection to this notice to issue a sole source contract within seven calendar days or as otherwise allowed from date notice posted to:

state.procurement.office@hawaii.gov

Chief Procurement Officer (CPO) Comments:

This approval is for the solicitation process only. HRS section 103D-310(c) and HAR section 3-122-112, shall apply (i.e. vendor is required to provide proof of compliance) and award is required to be posted on the Awards Reporting system. This approval is conditioned that department will also post the approved sole source as noted in CPO comments to SS14-082-S.

If there are any questions, please contact Donn Tsuruda-Kashiwabara at 586-0565, or donna.tsuruda-kashiwabara@hawaii.gov.

Approved

Disapproved

No Action Required

Chief Procurement Officer Signature

2/18/15

Date

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LIFE TECHNOLOGIES CORPORATION – ABI 7500 FAST DX
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6. Describe in detail the following: (continued)
 - a. The unique features, characteristics, or capabilities of the goods, service or construction:

utilizes a multicomponenting algorithm to provide precise deconvolution of multiple dye signals enabling the simultaneous detection of multiple fluorophores 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.