

# Technical Data to Support a Restricted Competition

## Part I - General Information

a. Requisition (2237) Number

b. Technical Point of Contact (include name, title, facility, phone number, e-mail address of the VA employee who has the technical knowledge of why this acquisition must be sole source)

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c. Using layperson's language, describe the supplies or services required to meet the Government's minimum needs, including quantities (for supplies), time periods (for services), and estimated price.

The overall goal of our VA funded research project is to elucidate the mechanisms underlying the trafficking of cholesterol for steroidogenesis.

We need a plate reader that has dual injectors and the following features we need the plate reader to have so that can allow us to capture faster reactions and facilitate our research.

1. The Spectrometer should have standard with NFC-tagged filters, which can allow us to tap the NFC-tagged filter on the NFC reader to pull up filter information It should has an ultra-cooled PMT, down to -5°C, to eliminate background noise and to help increase detection sensitivity.
2. Ideally the machine should has a touch screen PC with Near Field Communication (NFC) technology, which will allow us to save individual protocols and data with one simple tab. The touch screen PC also adds convenience and ease-of-use.
3. This machine we are looking for should has a unique, hybrid optic system consisted of monochromators and filters for wavelength selection and assay reading. Its optic system ensures optimal excitation and emission for different assays (especially hTRF and regular FRET) to achieve the highest sensitivity possible. It also provides flexibility to different users.
4. We would need this machine to be able to heats up to 65°C for studies that need to be performed at different temperatures.

After market research, the Spectramax iD5 plate reader from molecular Devices meets our needs. The plate reader is , and we would need to have ASAP for our research project ( ).

d. Recommended Vendor Contact Information (include name, address, point of contact with email and phone number). If this is for supplies, list any known distributors.

e. Was this item or service purchased previously? If yes, list the order or contract number.

No.

f. What information is being used to come to the conclusion that one company is capable of meeting the Government's needs? Describe all research done or sources contacted.

We performed online search and also contacted representatives from Thermofishe, Tecan technology and Molecular Devices. We have an older version of this plate reader and would need have an updated one with injectors so that we can detect fast reactions. There is also patent copy right software for data analysis and personnel all trained for this software with molecular devices machine. We would also need to be able to compare the data obtained from the new version of the machine with the old version of the machine. Since we already have the old version of this plate reader in use, we would need to have the newer version of the machine from the same company so that we would not run into problems with compatibility.  
In summary: Through comparison, only this machine from the molecular devices iD5 has the capacity with the injectors and would allow us to continue and enhance the quality of our project.

**Part II – Reason for Sole Source**

*Complete **paragraphs a, b, and c** if the sole source is based on there being only **one qualified source**. This includes brand name sole source, even if multiple distributors exist. Complete **paragraphs d, e, and f** if the sole source is based on **urgency**.*

a. Describe what qualifications the recommended sole source contractor has which no other contractor has and how those qualifications relate to the Government's minimum needs.

. This plate reader has dual injectors and would allow us to capture faster reactions and facilitate our research.

b. Explain why technical data packages, specifications, engineering descriptions, statements of work, or purchase descriptions suitable for full and open competition have not been developed or are not available.

. We have an older version of this plate reader that do not have injector and cannot perform the experiment we want. However lab personnel are familiar with the software and analysis of the data obtained from this plate reader.

c. State what actions will be taken to remove or overcome any barriers to competition before any subsequent acquisition for the supplies or services required. If no actions will be taken, explain why doing so is not feasible.

d. What caused the urgency?

We would need this plate reader for our funded research project

e. What will be the consequences if these supplies or services are not bought using urgent procedures (include estimated cost or other rationale as to the extent and nature of the harm to the Government)?

It will delay our research activity on our funded project ).

f. What will be done in the future to prevent repeat urgent acquisition of this item or service?

I hereby certify (a) this requirement is a valid requirement, (b) the technical and requirements information above represent the minimum needs of the Government, (c) that the information in this document is provided in good faith, and (d) the supporting data and information are accurate and complete to the best of my knowledge and belief. I further certify that this request is not the result of lack of advanced planning or a desire to expend funds while those funds are still available.

*wenjun shen*

Name: wen-jun shen

Title: senior scientist

Date: 6/18/2019