



## ONE-STEP SAMPLE EXTRACTION CASSETTE AND METHOD FOR POINT-OF-CARE MOLECULAR TESTING

[View U.S. Patent No. 11,919,004 in PDF format.](#)

**WARF: P210247US01**

Inventors: Duane Juang, Terry Juang, David Beebe

---

### Overview

The current gold standard method for COVID-19 testing is a multi-step protocol involving RNA extraction using column-based or magnetic bead-based methods, followed by RT-qPCR-based detection of the extracted RNA. Unless automated platforms are employed, this extraction process is lengthy and laborious.

### The Invention

UW researchers have developed a new point-of-care molecular testing solution. It can be implemented in a one-step sample extraction cassette to provide accurate and rapid results. The sample is obtained on a swab, and the swab inserted into the cassette. The cassette is then engaged to initiate a series of sequential wash and reaction steps resulting in a visual display.

### Additional Information

#### For More Information About the Inventors

- [David Beebe](#)

#### Tech Fields

- [Diagnostics & Biomarkers : Diagnostics](#)

For current licensing status, please contact Jeanine Burmania at [jeanine@warf.org](mailto:jeanine@warf.org) or 608-960-9846