

## Accepted Manuscript

Simultaneous quantitation of multiple contraceptive hormones in human serum by LC–MS/MS

Steven W. Blue, Andrea J. Winchell, Amy V. Kaucher, Rachel A. Lieberman, Christopher T. Gilles, Maria N. Pyra, Renee Heffron, Xuanlin Hou, Robert W. Coombs, Kavita Nanda, Nicole L. Davis, Athena P. Kourtis, Joshua T. Herbeck, Jared M. Baeten, Jairam R. Lingappa, David W. Erikson

PII: S0010-7824(18)30037-4  
DOI: doi: [10.1016/j.contraception.2018.01.015](https://doi.org/10.1016/j.contraception.2018.01.015)  
Reference: CON 9039

To appear in: *Contraception*

Received date: 28 July 2017  
Revised date: 13 December 2017  
Accepted date: 24 January 2018



Please cite this article as: Blue Steven W., Winchell Andrea J., Kaucher Amy V., Lieberman Rachel A., Gilles Christopher T., Pyra Maria N., Heffron Renee, Hou Xuanlin, Coombs Robert W., Nanda Kavita, Davis Nicole L., Kourtis Athena P., Herbeck Joshua T., Baeten Jared M., Lingappa Jairam R., Erikson David W., Simultaneous quantitation of multiple contraceptive hormones in human serum by LC–MS/MS, *Contraception* (2018), doi: [10.1016/j.contraception.2018.01.015](https://doi.org/10.1016/j.contraception.2018.01.015)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Simultaneous quantitation of multiple contraceptive hormones in human serum by LC-MS/MS**

<sup>1</sup>Steven W. Blue, <sup>1</sup>Andrea J. Winchell, <sup>1</sup>Amy V. Kaucher, <sup>2</sup>Rachel A. Lieberman, <sup>2</sup>Christopher T. Gilles,  
<sup>3</sup>Maria N. Pyra, <sup>3,4</sup>Renee Heffron, <sup>4</sup>Xuanlin Hou, <sup>5</sup>Robert W. Coombs, <sup>6</sup>Kavita Nanda, <sup>7</sup>Nicole L. Davis,  
<sup>7</sup>Athena P. Kourtis, <sup>4</sup>Joshua T. Herbeck, <sup>3,4,5</sup>Jared M. Baeten, <sup>4,8,9</sup>Jairam R. Lingappa, <sup>1,\*</sup>David W. Erikson

<sup>1</sup>Endocrine Technologies Support Core, Oregon National Primate Research Center, Beaverton, OR;

<sup>2</sup>Shimadzu Scientific Instruments, Columbia, MD; <sup>3</sup>Department of Epidemiology, University of

Washington, Seattle, WA; <sup>4</sup>Department of Global Health, University of Washington, Seattle, WA;

<sup>5</sup>Department of Medicine, University of Washington, Seattle, WA; <sup>6</sup>FHI 360, Durham, NC; <sup>7</sup>Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, Atlanta, GA; <sup>8</sup>Department of Medicine, University of Washington, Seattle, WA; <sup>9</sup>Department of Pediatrics, University of Washington, Seattle, WA

\*Corresponding author: David W. Erikson, Ph.D., Endocrine Technologies Support Core, Oregon National Primate Research Center, 505 NW 185<sup>th</sup> Ave, Beaverton, OR 97006; email: erikson@ohsu.edu; phone: 503-346-5078.

Word count: Abstract, 202; Text, 3627.

Download English Version:

<https://daneshyari.com/en/article/8777491>

Download Persian Version:

<https://daneshyari.com/article/8777491>

[Daneshyari.com](https://daneshyari.com)