## Accepted Manuscript

Title: Overcoming the stability, solubility and extraction challenges in reversed-phase UHPLC-MS/MS bioanalysis of a phosphate drug and its prodrug in blood lysate

Authors: Long Yuan, Shenita Basdeo, Qin C. Ji

PII: S0731-7085(18)30663-0

DOI: https://doi.org/10.1016/j.jpba.2018.05.006

Reference: PBA 11957

To appear in: Journal of Pharmaceutical and Biomedical Analysis

Received date: 20-3-2018 Revised date: 3-5-2018 Accepted date: 4-5-2018

Please cite this article as: Long Yuan, Shenita Basdeo, Qin C.Ji, Overcoming the stability, solubility and extraction challenges in reversed-phase UHPLC-MS/MS bioanalysis of a phosphate drug and its prodrug in blood lysate, Journal of Pharmaceutical and Biomedical Analysis https://doi.org/10.1016/j.jpba.2018.05.006

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.



## ACCEPTED MANUSCRIPT

Overcoming the stability, solubility and extraction challenges in reversed-phase UHPLC-MS/MS bioanalysis of a phosphate drug and its prodrug in blood lysate

Long Yuan\*, Shenita Basdeo, Qin C. Ji

Bioanalytical Sciences, Bristol-Myers Squibb, Princeton, NJ 08543

\* Corresponding Author: Long Yuan.

Long Yuan, PhD, Email address: long.yuan@bms.com

### **Highlights:**

- LC-MS/MS bioanalysis of a phosphate drug and its prodrug in blood lysate
- A stabilization strategy using a cocktail of phosphatase and kinase inhibitors
- Solubilized the phosphate drug using a combination of surfactant and weak base
- Protein precipitation followed by solid-phase extraction for sample extraction
- Supported multiple pre-clinical toxicity studies using the validated method

#### Download English Version:

# https://daneshyari.com/en/article/7626060

Download Persian Version:

https://daneshyari.com/article/7626060

<u>Daneshyari.com</u>