

Concentration Analysis of Rapid-Equilibrium Binding between Warfarin and Human Serum Albumin Using a Gradient Surface Plasmon Resonance Technique

Preejith Vachali^{1*} and Aaron Martin²

¹University of Utah, Moran Eye Center, 65 Mario Capecchi Dr, Salt Lake City, USA

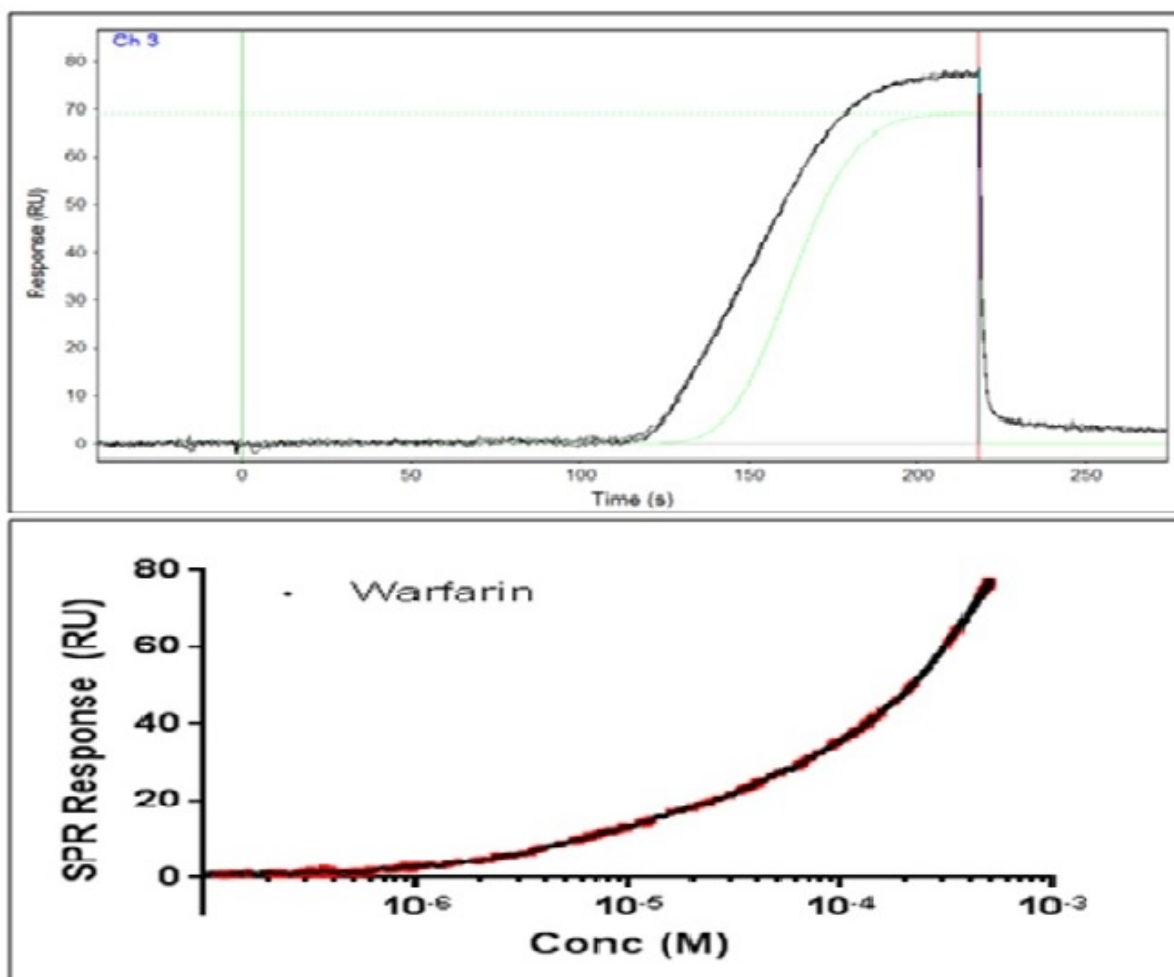
²SensiQ Technologies, 800 Research Parkway, Oklahoma City, USA

*Corresponding author: Preejith Vachali, University of Utah, Moran Eye Center, 65 Mario Capecchi Dr, Salt Lake City, USA, Tel: +1 801-581-2352; E-mail: preejith.vachali@hsc.utah.edu

Rec date: Mar 03, 2015; Acc date: Mar 04, 2015; Pub date: Mar 06, 2015

Copyright: © 2015 Vachali P, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Clinical Image



Warfarin binding immobilized HSA (left panel) using the sigmoidal gradient (OneStep®) on a SensiQ Pioneer SPR system. Warfarin sample (500 μ M top concentration) was injected in triplicate. Concentration view (right panel) shows the signal transformed versus analyte concentration with error bars showing standard deviation of SPR replicates. Analysis of response versus concentration yields interaction affinity when binding is at equilibrium.