

Supplementary

Development of Polydiacetylene-Based Testosterone Detection as a Model Sensing Platform for Water-Insoluble Hormone Analytes

Jaewon Jung ¹, Sungmin An ¹, Eunkyung Lim ^{2,3}, Seungchul Kim ⁴, Beumsoo An ¹ and Sungbaek Seo ^{1,*}

¹ Department of Biomaterials Science (BK21 FOUR Program), College of Natural Resources and Life Science/Life and Industry Convergence Research Institute, Pusan National University, Miryang 50463, Korea; jenifer5192@pusan.ac.kr (J.J.); ied234@naver.com (S.A.); anbs@pusan.ac.kr (B.A.)

² BioNanotechnology Research Center, KRIBB, 125 Gwahak-ro, Yuseong-gu, Daejeon 34141, Korea; eklim1112@kribb.re.kr

³ Department of Nanobiotechnology, KRIBB School of Biotechnology, UST, 217 Gajeong-ro, Yuseong-gu, Daejeon 34113, Korea

⁴ Department of Obstetrics and Gynecology, Pusan National University College of Medicine, Yangsan, Gyeongnam 50612, Korea; ksch0127@naver.com

* Correspondence: sbseo81@pusan.ac.kr

Citation: Jung, J.; An, S.-M.; Lim, E.-K.; Kim, S.-C.; An, B.-S.; Seo, S. Development of Polydiacetylene-Based Testosterone Detection As a Model Sensing Platform for Water-Insoluble Hormone Analytes. *Chemosensors* **2021**, *9*, 176. <https://doi.org/10.3390/chemosensors9070176>

Academic Editor: Pietro Salvo

Received: 24 May 2021

Accepted: 8 July 2021

Published: 12 July 2021

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Copyright: © 2021 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).

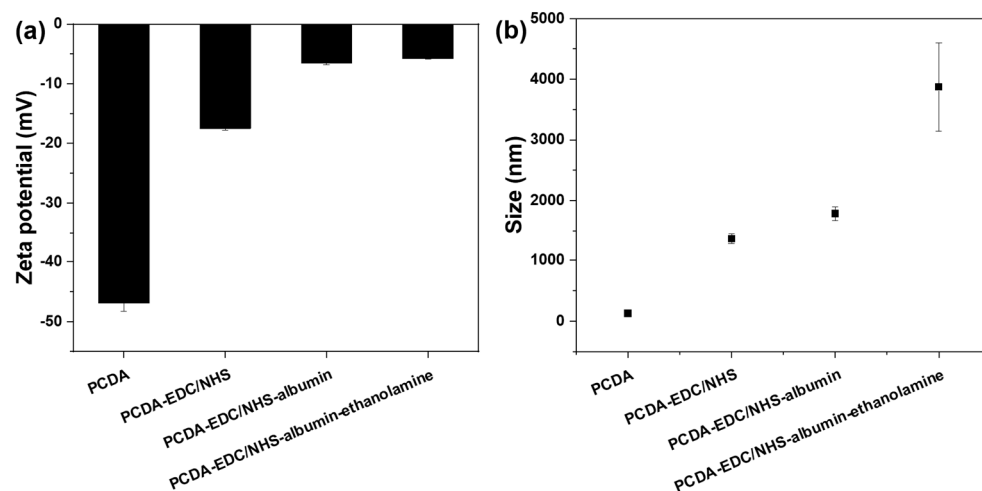


Figure S1. (a) Zeta potential values and (b) size of PDA and during conjugating albumin to PDA.

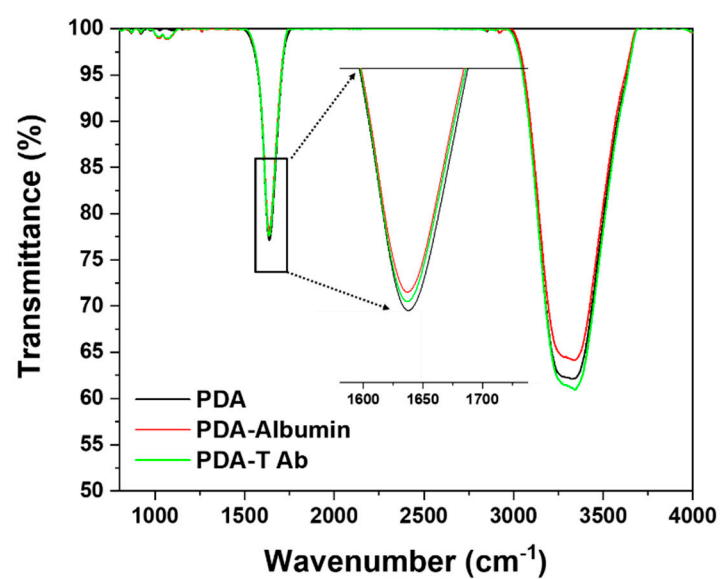


Figure S2. FT-IR spectra of PDA, PDA-Albumin and PDA-T Ab.

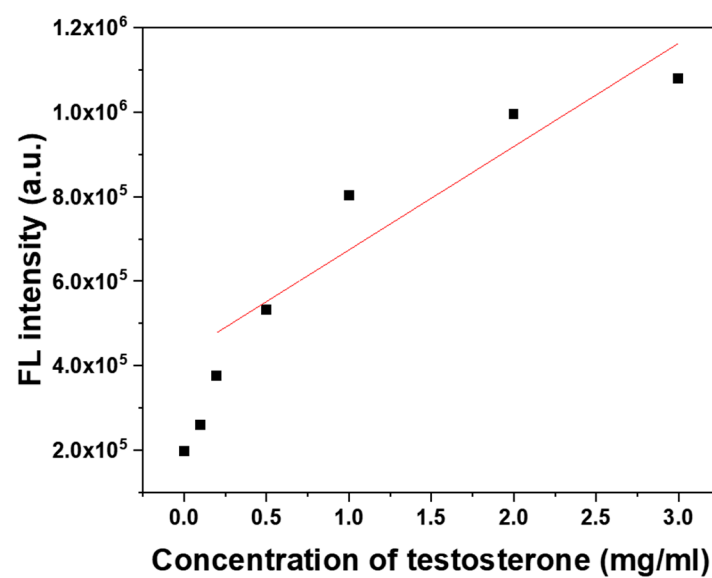


Figure S3. Fluorescence intensity of PDA-T Ab after incubation with testosterone hormones in filtered human serum.