Supporting Information

Mesothelin microsensor based on embedded thionine electronic media within imprinted polymer on acupuncture needle electrode

Yi Zhang\textsuperscript{a, b, c}, Xue Kong\textsuperscript{a, b}, Hai-Yang Guo\textsuperscript{b}, Jing Wang\textsuperscript{a, *}, Zheng-Zhi Yin\textsuperscript{b, c, *}

\textsuperscript{a} College of Chemical Engineering, Zhejiang University of Technology, Hangzhou, 310014, China
\textsuperscript{b} College of Biological, Chemical Sciences and Engineering, Jiaxing University, Jiaxing 314001, China
\textsuperscript{c} Jiaxing Key Laboratory of Molecular Recognition and Sensing, College of Biological, Chemical Sciences and Engineering, Jiaxing University, Jiaxing 314001, China

Corresponding author:

E-mail: Jingw1986@zjut.edu.cn (J. Wang); yinzhexhi@zjxu.edu.cn (Z.-Z. Yin)
Fig. S1 The electropolymerization curve for AuNPs.

Fig. S2 The electropolymerization curve of TH.
**Fig. S3** The electropolymerization curve of EBT.

**Fig. S4** The cycling number for optimization of electropolymerization EBT.
Table S1. Comparison of the prepared microsensor with other reported MSLN biosensors.

<table>
<thead>
<tr>
<th>Sensor and method</th>
<th>Linear range</th>
<th>LOD</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIAS</td>
<td>20 - 110 pg/mL</td>
<td>20 pg/mL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>10 - 10×10¹⁰</td>
<td>/</td>
<td>2</td>
</tr>
<tr>
<td>PCTE</td>
<td>10 - 10×10¹⁰</td>
<td>/</td>
<td>2</td>
</tr>
<tr>
<td>ELISA</td>
<td>0.08 - 5.2 ng/mL</td>
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<td>3</td>
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<tr>
<td>SPRi</td>
<td>9 - 120 nmol/L</td>
<td>13.62 nmol/L</td>
<td>4</td>
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<td>AN microelectrode</td>
<td>0.1 - 1000 ng/mL</td>
<td>10 pg/mL</td>
<td>This work</td>
</tr>
</tbody>
</table>


References