Supporting Information

Integration of cobalt ions assisted-Fenton digestion and photochemical vapor generation: A green method for rapid determination of trace cadmium in rice

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Figure S1. Time-resolved profiles of 1 ng mL\(^{-1}\) Cd\(^{2+}\) in PVG-ICP MS: 80 s irradiation time, 20 mg L\(^{-1}\) Co\(^{2+}\), and 40% (v/v) FA.
Figure S2. Effect of AA concentrations in mixed acids, 40% FA, 20 mg L⁻¹ Co²⁺, and 80 s UV irradiation time.
Figure S3. EPR result of the PVG sample of Cd, 80 s UV irradiation time.
Table S1. Analytical result of Pb in CRM

<table>
<thead>
<tr>
<th>Sample</th>
<th>Element</th>
<th>Measured μg g⁻¹ᵃ</th>
<th>Certified value μg g⁻¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBW(E100351)</td>
<td>Pb</td>
<td>0.12 ± 0.02</td>
<td>0.11 ± 0.01</td>
</tr>
</tbody>
</table>

ᵃMean value ± standard deviation (n = 3).
Table S2. Analytical results of Bi and Pb in rice samples

<table>
<thead>
<tr>
<th>Sample</th>
<th>Element</th>
<th>Measured $\mu g \ g^{-1}$ a</th>
<th>Added $\mu g \ g^{-1}$</th>
<th>Found $\mu g \ g^{-1}$ a</th>
<th>Recovery %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample- 4 (Rice)</td>
<td>Bi</td>
<td>0.0069 ± 0.0005</td>
<td>0.0100</td>
<td>0.0166 ± 0.0009</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>not detected</td>
<td>0.10</td>
<td>0.11 ± 0.01</td>
<td>110</td>
</tr>
</tbody>
</table>

aMean value ± standard deviation (n = 3).