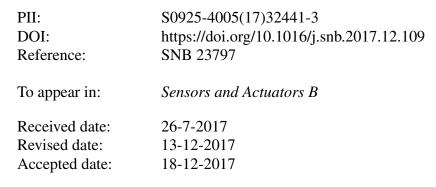
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Title: A novel rhodamine 6G-based fluorescent and colorimetric probe for Bi³⁺: synthesis, selectivity, sensitivity and potential applications

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SENSORS and Bactuators

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ACCEPTED MANUSCRIPT

A novel rhodamine 6G-based fluorescent and colorimetric probe for Bi³⁺: synthesis, selectivity, sensitivity and potential applications

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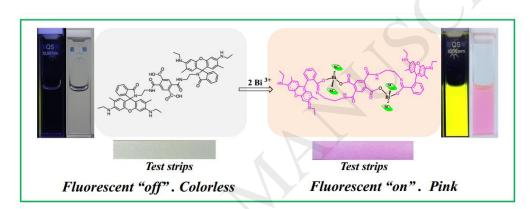
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Graphic Abstract:



Key words:

Chemosensor, Rhodamine 6G, Fluorescent, Colorimetric, Bismuth (III) ion

Highlights:

- >A novel fluorescent and colorimetric '*off-on*' sensor for the rapid detection of bismuth (III) ions was designed and synthesized.
- Good selectivity and high sensitivity to bismuth (III) ions over other competitive metal ions was observed.
- This sensor could be used as a promising "naked-eye" chemo-sensors for detection of bismuth containing drugs.

Abstract:

A new fluorescent and colorimetric chemosensor for the rapid detection of bismuth (III)

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