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Volume 55, 2020 - Issue 5




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Extraction

A novel process for scopolamine separation from *Hindu Datura* extracts by liquid–liquid extraction, macroporous resins, and crystallization

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Pages 922-931 | Received 22 Feb 2018, Accepted 01 Feb 2019, Published online: 05 Mar 2019

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ABSTRACT

An efficient separation method of scopolamine from *Hindu Datura* extracts was successfully developed by combining liquid–liquid extraction, macroporous resins, and crystallization. First, the extraction solution was successively performed with liquid–liquid extraction by acid water and carbon tetrachloride. Secondly, D151 resin was selected from six tested resins, and the separation parameters were optimized. Finally, scopolamine hydrobromide was obtained after crystallization at -20°C

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scopolamine increased from 3.02% (w/w) to 33.12% (w/w). In addition, the products were assessed by high-performance liquid chromatography (HPLC).

Q KEYWORDS: Scopolamine liquid-liquid extraction macroporous resins crystallization

Conflicts of interest

All authors declare there is no conflict of interest in this manuscript.

Supplementary material

Supplemental data for this article can be accessed [here](#).

Additional information

Funding

This research was financially supported by the Anhui Provincial Science and Technology Major Project of China [No. 16030801111] and the Anhui Provincial Natural Science Foundation [No. 1808085MC77].

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