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Analysis of acetylcholinesterase inhibitors by extraction in choline saccharinate aqueous biphasic systems

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Research Highlights:

- IL based on cheap and non-toxic ions are used for extraction of galantamine
- Acetylcholinesterase inhibitors are analyzed by means of IL-ABS
- Alkaloids are concentrated two orders of magnitude by means of IL-ABS

ABSTRACT

Ionic liquid-based aqueous biphasic systems (IL-ABS) formed by ILs composed of ions of low toxicity, choline ($[\text{Chol}]^+$) coupled with saccharinate ($[\text{Sac}]^-$) and acesulfamate ($[\text{Ace}]^-$), and inorganic salts with distinct water-structuring properties were employed for simultaneous extraction and concentration of acetylcholinesterase (AChE) inhibitors – galantamine (*gal*),

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