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[\[PDF \(511K\)\]](#) [\[References\]](#)**Flow-Injection On-line Electrochemical Separation/Determination of Ions Using a Two-Step Oil/Water-Type Flow Cell System**[Emi GOHARA](#)¹⁾ and [Toshiyuki OSAKAI](#)¹⁾*1) Department of Chemistry, Graduate School of Science, Kobe University*

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A flow system for electrochemical separation and detection of ions was constructed by connecting two oil/water (O/W)-type flow cells, in which a long polarizable O/W interface was formed at the inner surface of a porous poly(tetrafluoroethylene) (PTFE) tube. Using this system, acetylcholine and choline ions, whose ion-transfer potentials are different by only 60 mV, could be separated and determined simultaneously. It was thus shown that the present flow system is promising for the electrochemical flow separation/detection of ions and, in principle, also for electrochromatographic separation of ions.

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