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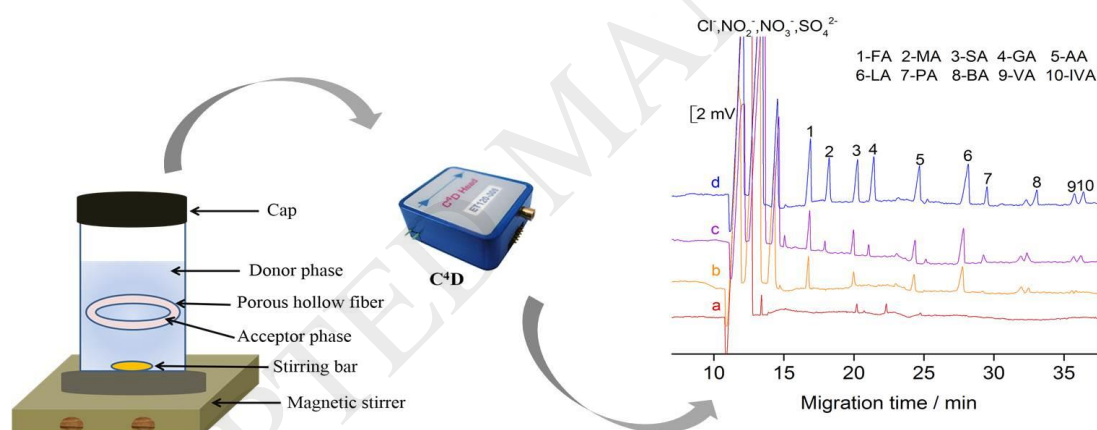


# Tributyl phosphate assisted hollow-fiber liquid-phase microextraction of short-chain fatty acids in microbial degradation fluid using capillary electrophoresis-contactless coupled conductivity detection

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## Graphical abstract



**Abbreviations:** AA, acetic acid; BA, butyric acid; BGE, background electrolyte; CAD, charged aerosol detection; C<sup>4</sup>D, capacitively coupled contactless conductivity detection; CE, capillary electrophoresis; CTAB, hexadecyltrimethyl ammonium bromide; DAD, diode array detector; EFs, enrichment factors; ELSD, evaporative light-scattering detection; FA, formic acid; FAs, Fatty acids; GA, glutaric acid; GC-FID, gas chromatography with flame ionization detection; GC-MS, gas chromatography with mass spectrometry; HF-LPME, hollow-fiber liquid-phase microextraction; His, L-histidine; HPLC-UV, high performance liquid chromatography with ultraviolet; IVA, isovaleric acid; LA, lactic acid; LED, light-emitting diode; LIF, laser-induced fluorescence; LOD, limit of detection; MA, malonic acid; MES, 2-(N-Morpholino) ethanesulfonic acid; NMR, nuclear magnetic resonance; PA, propionic acid; RSD, relative standard deviation; SA, succinic acid; SCFAs, short-chain fatty acids; SLM, supporting liquid membrane; TBP, tributyl phosphate; TOPO, trioctylphosphine oxide; VA, valeric acid.

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