Supporting Information

A Selective Extraction Method for Recovery of Monofunctional Methoxyphenols from Biomass Pyrolysis Liquids

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GC-MS chromatogram of extracts obtained at different pH levels and the MP-distillate fraction



Definitions

The mass concentration of the targeted MPs (eugenol, isoeugenol (Z and E), guaiacol, 4-methylguaiacol, 4-ethylguaiacol, and 4-propylguaiacol in the starting biocrude, separation feed streams, and recovered products were used to determine a separation step efficiency, overall separation efficiency, and product purity as defined below.

Separation step efficiency (wt.%) = $\frac{Mass \ of \ MPs \ in \ separation \ step \ product}{Mass \ of \ MPs \ in \ the \ separation \ step \ feed}$

 $Overall Separation \ efficiency \ (wt.\%) = \frac{Mass \ of \ MPs \ in \ the \ final \ recovered \ product}{Mass \ of \ MPs \ in \ the \ starting \ biocrude}$

 $Purity (wt.\%) = \frac{Mass of MPs in the product}{Mass of sample}$