Metal-organic frameworks as affinity agents to enhance microdialysis sampling efficiency of fatty acids

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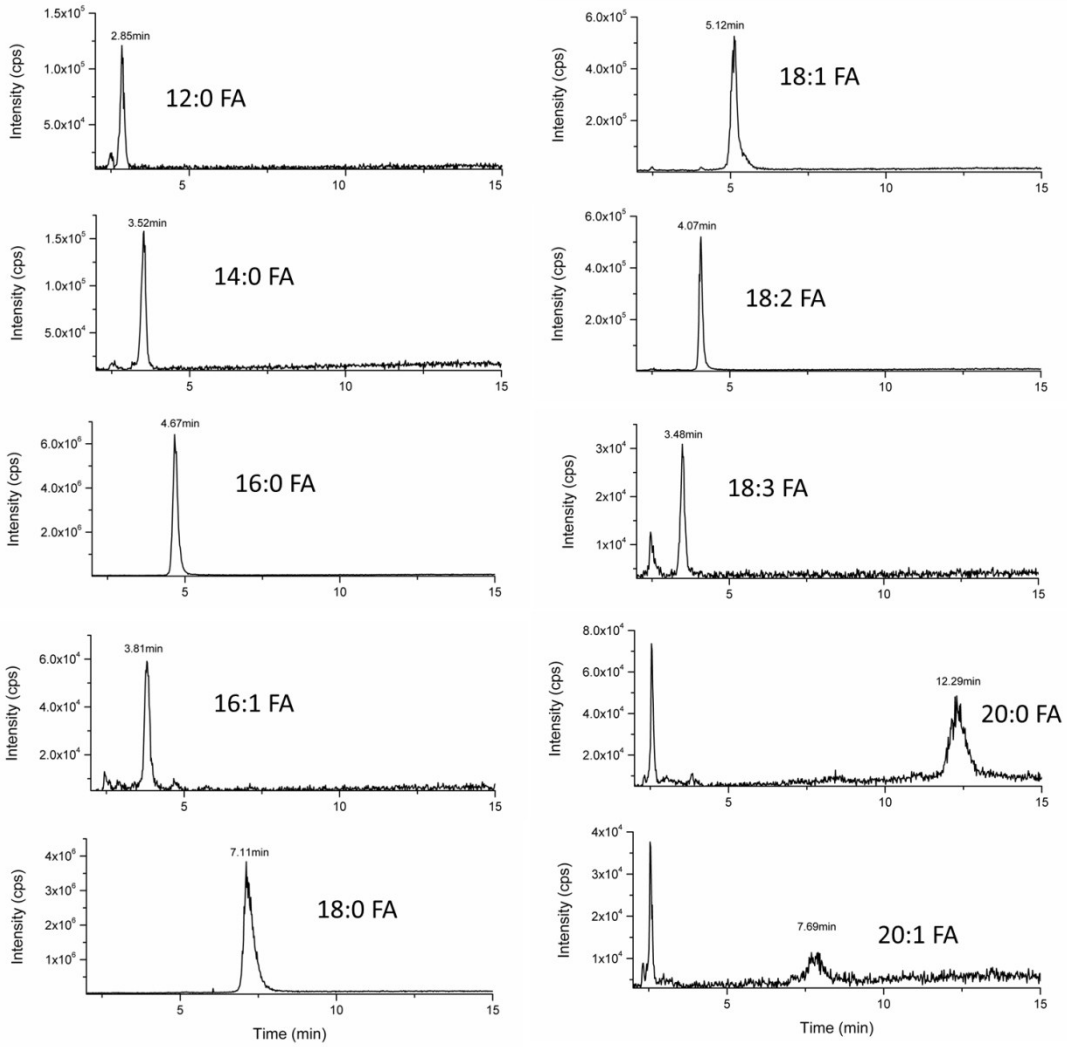

Figure S1. The representative extracted ion chromatograms (XICs) of FAs in dialysate of cell culture mediums.

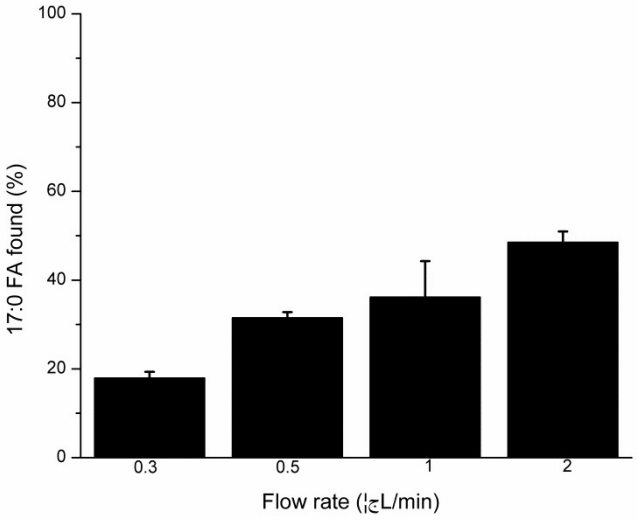

Figure S2. Non-specific adsorption of FA in the microdialysis system. Percentage of initially added 17:0 FA found in the perfusion fluid after passage through the microdialysis system at four different flow rates after 1 h equilibration time. The data are expressed as the mean ± SD of three separate measurements.

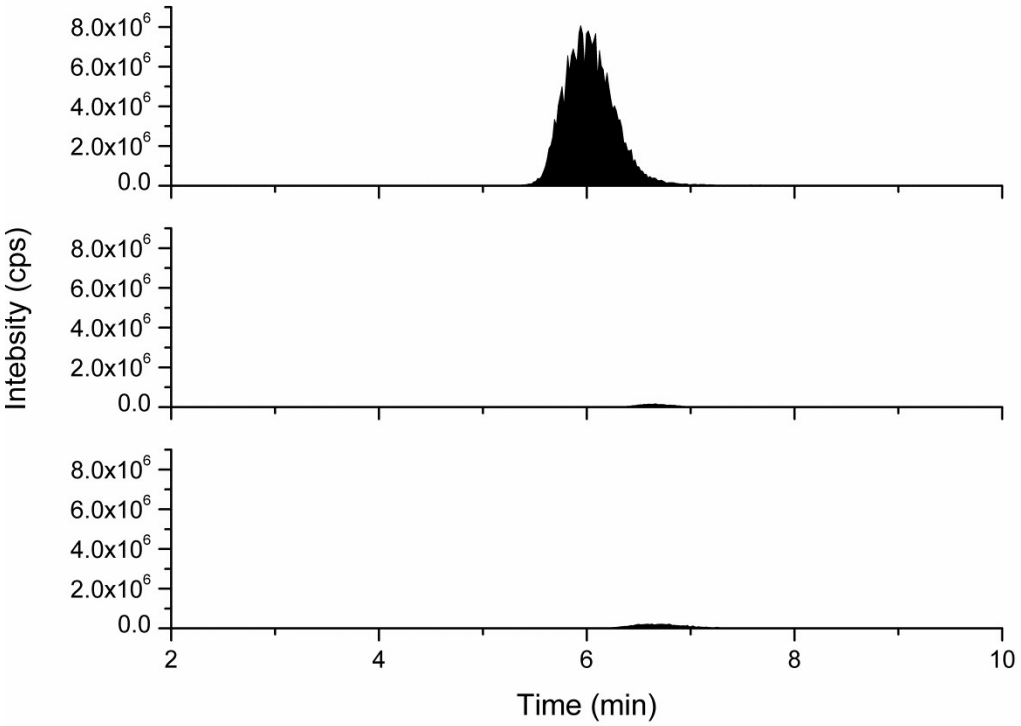

Figure S3. Ultrahigh performance liquid chromatography- QTrap extracted ion chromatograms (XIC) for 17:0 FA in original standard soulution (top) and supernatant after MIL-101 (middle) or ZIF-8 (bottom) extraction.

Table S1. Microdialysis relative recovery of 17:0 FA standard at four different flow rates.

Fatty acids	Flow rate (μL/min)	Relative recovery (%)
C17 FA	0.3	13.07±5.61
	0.5	23.79±1.75
	1	27.15±3.45
	2	33.64±4.64