



GE FASTlab™ cassette layout for $[^{18}\text{F}]\text{BF}_4^-$ synthesis. SPE cartridges are conditioned as in the main manuscript. Reagents are present in cassette positions 2 (0.9% NaCl, 750 μL), 12 (15-crown-5, 46 mg in MeCN (800 μL)), 13 ($\text{BF}_3 \cdot \text{OEt}_2$, 0.2 μL in MeCN (850 μL)), 14 (0.9% NaCl, 1 mL), 15 (H_2O (sterile purified water, GE Healthcare)) and 16 (MeCN, 1.5 mL).