Supplementary Material

Challenges in the solution phase synthesis of PSMA-11 and PSMA-617: Organic ligands for radiopharmaceutical preparations in prostate cancer medication

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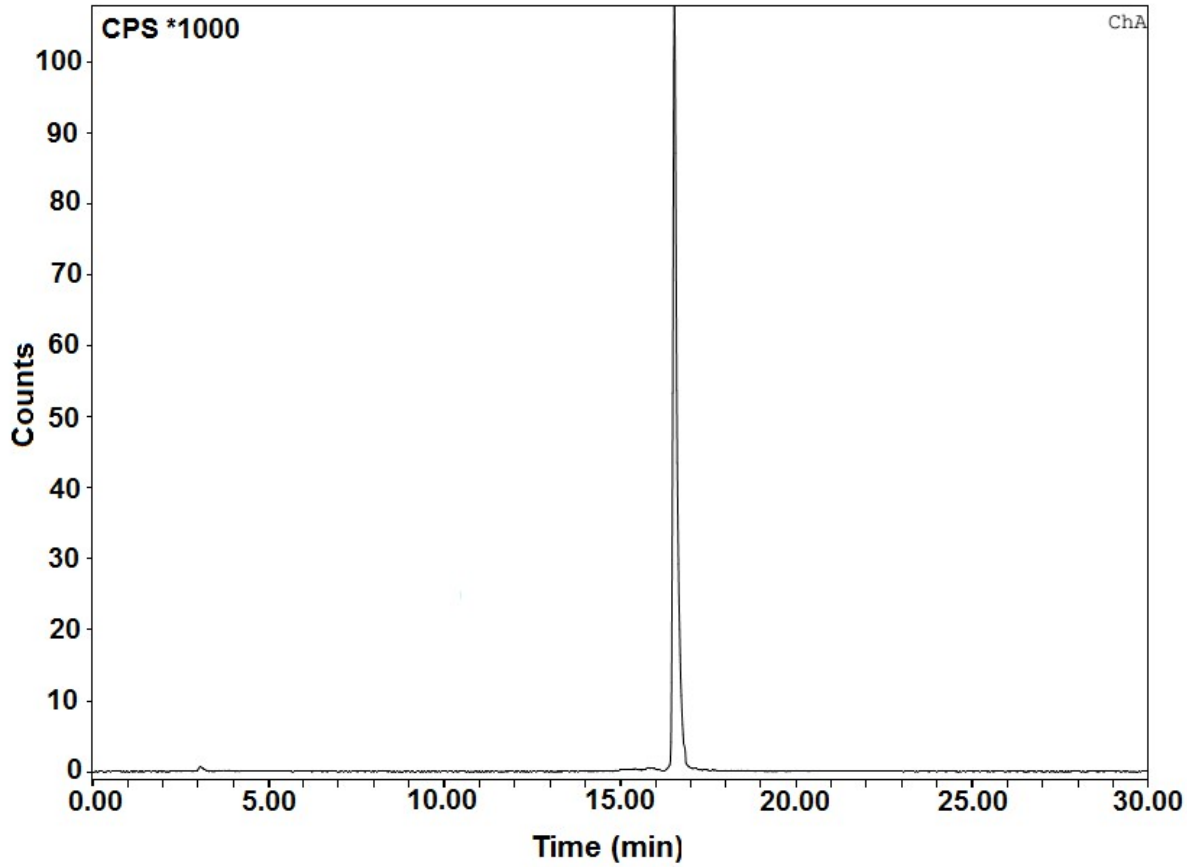

Fig. S1. Radiochemical purity of [^{177}Lu]Lu-PSMA-617 observed using synthesized PSMA-617 (^{177}Lu activity used 10-20 mCi). Solvent gradient was 95% water, to 5% water over 30 min at a flow rate of 1 mL/min.

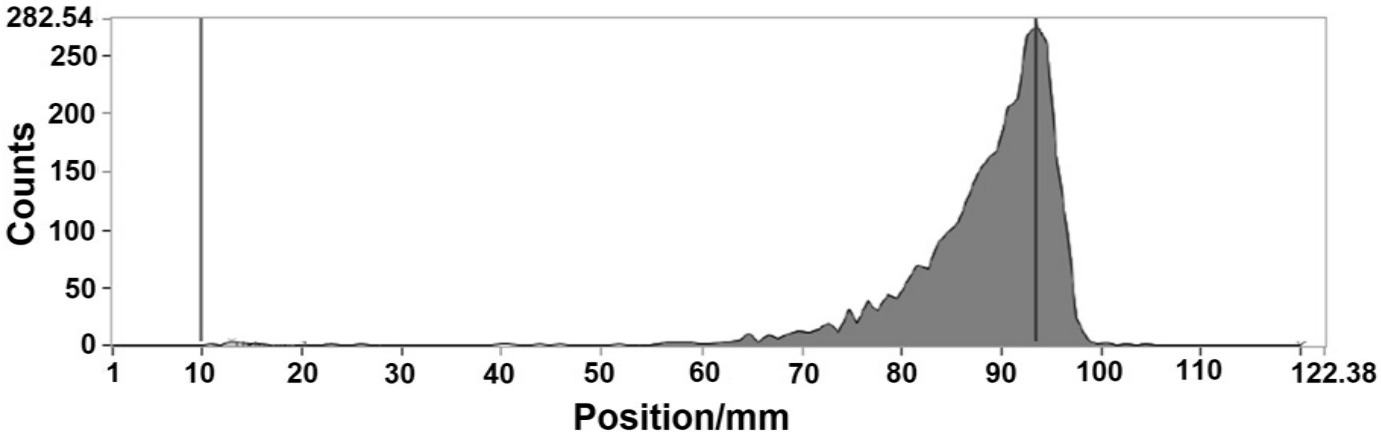

Fig. S2. Paper chromatogram of [^{177}Lu]Lu-PSMA-617 made from synthesized PSMA-617.

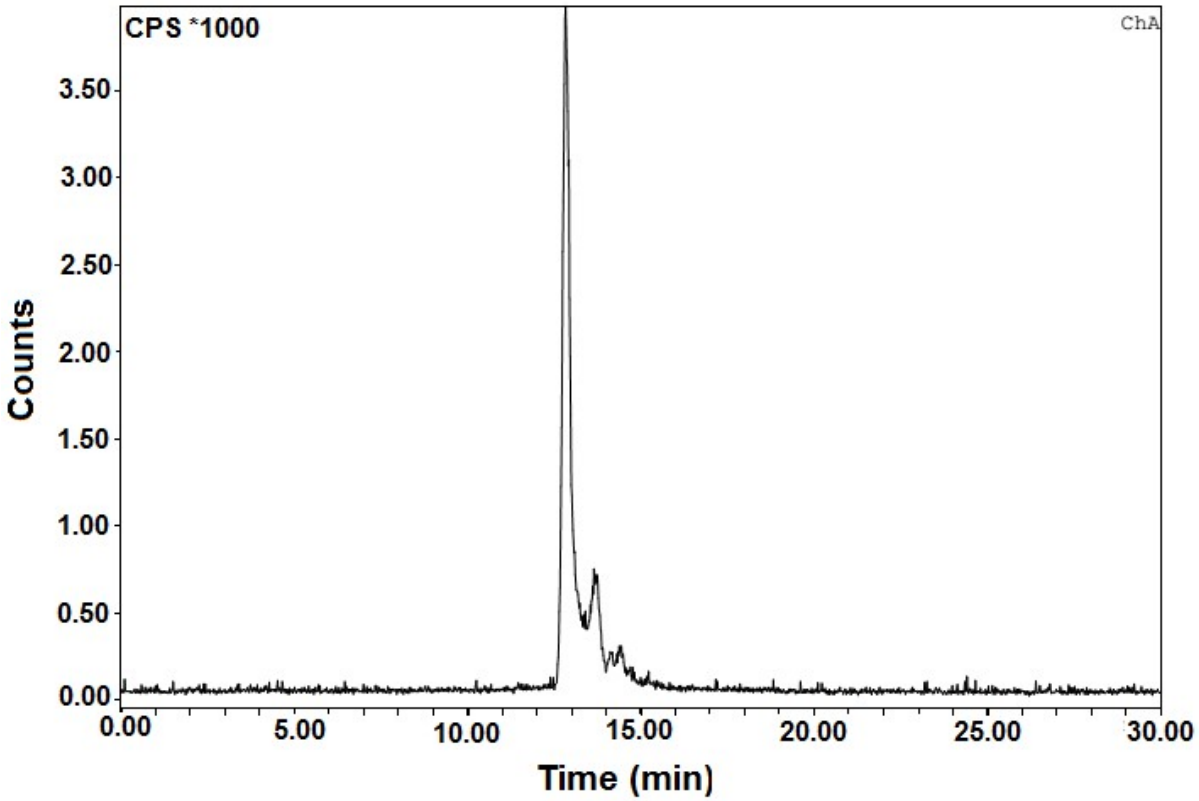

Fig. S3. Radiochemical purity of [^{68}Ga]Ga-PSMA-11 observed using synthesized PSMA-11 (^{68}Ga activity used 20-100 μCi). Solvent gradient was 90% water, to 10% water over 30 min at a flow rate of 1 mL/min.

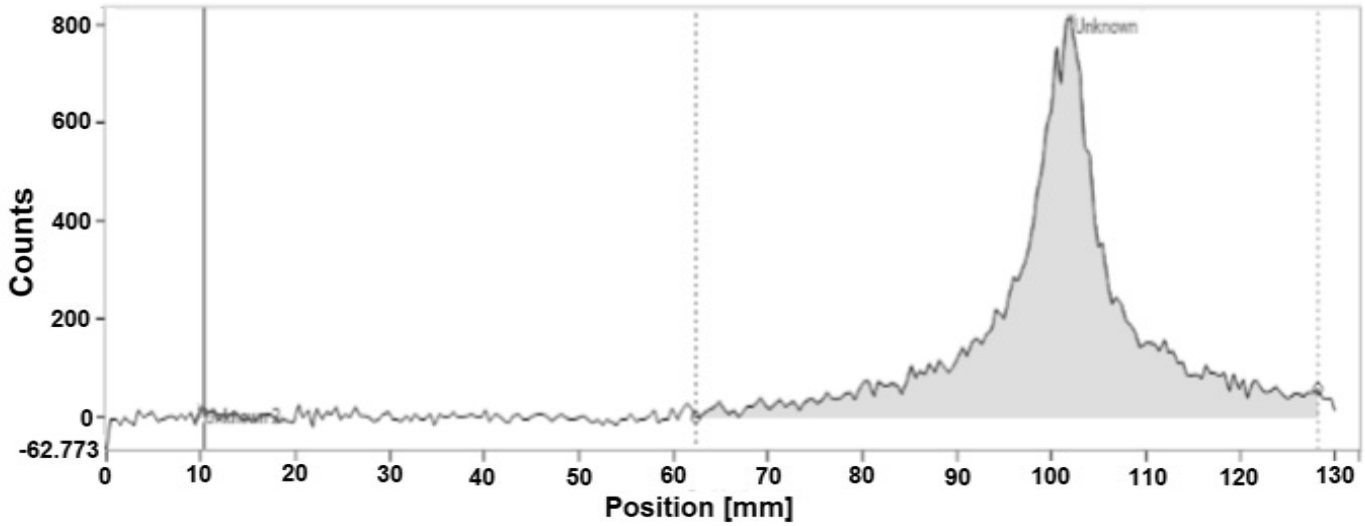

Fig. S4. Paper chromatogram of [^{68}Ga]Ga-PSMA-11 made from synthesized PSMA-11.