

Supplementary Material 1

Radiolabeling properties of DOTA immune conjugates

	Tumor model	Conjugate Concentration (mg/mL)	Input radioactivity (MBq)	Radiochemical purity (%)
$[^{111}\text{In}]\text{In-DOTA-TRK-950}$	4T1	2.2	673	97.4
	HT-29	2.2	398	96.6
	MNNG/HOS	2.2	673	96.4
$[^{111}\text{In}]\text{In-DOTA-TRK-950- F(ab')_2}$	4T1	1.2	393	97.7
$[^{177}\text{Lu}]\text{Lu-DOTA-TRK-950}$	4T1	4.4	852	95.0
	HT-29	6.0	684	95.0
$[^{177}\text{Lu}]\text{Lu-DOTA-TRK-950- F(ab')_2}$	4T1	4.5	1484	96.5