

**Supplemental Table S1:** Quality assurance release criteria for [<sup>18</sup>F]α<sub>v</sub>β<sub>6</sub>-BP

<b>Pre-Release tests</b>	<b>Specification</b>
Appearance	colorless, and particle free
pH	4.5-8.0
Radiochemical purity (HPLC)	>90%
Radiochemical identity (HPLC)	Sample retention time conforms to the reference standard retention time
Radionuclidic identity	Measured half-life 105-115 minutes
Residual solvent levels	Ethanol <10% Acetone <5000 ppm Acetonitrile <410 ppm DIPEA <25 ppm Acetic acid <5000 ppm Dimethylsulfoxide <5000 ppm
Kryptofix levels	<50 µg/mL
Bacterial Endotoxin levels	<5 EU/mL
Filter integrity test	Meet pressure specified by manufacturer (≥50 psi)
Mass dose	≤50 µg
Molar activity	≥37 GBq/µmol
<b>Post-Release Test</b>	<b>Specification</b>
Sterility	No growth observed in 14 days