

**Table S1.** Composition of Ti6Al4V powder.

Element	Composition (%)	ASTMF2924 (%)	Element	Composition (%)	ASTMF2924 (%)
Al	6.70	5.50-6.75	N	0.03	<0.05
V	4.10	3.50-4.50	H	0.01	<0.015
Fe	0.12	<0.3	Y	0	<0.005
O	0.11	<0.2	Ti	<0.08	<0.4
C	0.06	<0.08	Other	88.79	remainder