

Table S1: 16S V4 sequence depth data

Treatment group (individual animal identifier)	Sequence counts	Treatment group (individual animal identifier)	Sequence counts
ST (Sensitive/untreated)		RUT (Resistant/treated)	
RF OV1	195478	RF OV11	253884
RF OV2	190157	RF OV12	200802
RF OV3	221776	RF OV13	219199
RF OV4	171003	RF OV14	203791
RF OV5	262980	RF OV15	289827
SUT (Sensitive/untreated)		RT (Resistant/treated)	
RF OV6	180285	RF OV16	118718
RF OV7	256887	RF OV17	124906
RF OV8	218121	RF OV18	177617
RF OV9	228227	RF OV19	258684
RF OV10	258311	RF OV20	154489
ST (Sensitive/untreated)		RUT (Resistant/treated)	
TIMS OV1	6287	TIMS OV11	13467
TIMS OV2	7314	TIMS OV12	8150
TIMS OV3	40442	TIMS OV13	31301
TIMS OV4	8343	TIMS OV14	28376
TIMS OV5	28166	TIMS OV15	4812
SUT (Sensitive/untreated)		RT (Resistant/treated)	
TIMS OV6	7017	TIMS OV16	47474
TIMS OV7	29756	TIMS OV17	15889
TIMS OV8	22214	TIMS OV18	7954
TIMS OV9	8853	TIMS OV19	9599
TIMS OV10	1900	TIMS OV20	16708

ST, sensitive isolate+monepantel administration; SUT, sensitive isolate untreated; RT, resistant isolate+monepantel administration; RUT, resistant isolate untreated; OV, ovine; RF, rectal faeces; TIMS, Terminal ileum mucosal scrapings