

附表 1 瘤胃微生物 16S rRNA 数据质控统计表

Table 1 Statistical table of quality control of rumen microbial 16S rRNA data

Sample Name	Raw Tags	Clean Tags	Effective Tags	Base(nt)	AvgLen(nt)	Q20	Q30	GC%	Effective%
EL.RFI.9	78 979	77 759	49 439	20 471 502	414	98.03	93.75	53.88	61.75
EL.RFI.8	83 102	81 819	54 349	22 496 683	414	98.05	93.91	52.91	64.49
EL.RFI.7	90 781	89 316	59 686	24 755 148	415	97.96	93.67	54.48	64.95
EL.RFI.6	95 087	93 651	59 863	24 875 820	416	98.16	94.11	53.28	62.21
EL.RFI.5	84 144	82 783	62 585	25 969 543	415	98.12	94.07	55.42	73.6
EL.RFI.4	90 071	88 420	52 978	22 015 879	416	97.99	93.75	54.83	58.1
EL.RFI.3	91 620	90 056	61 887	25 516 658	412	98.03	93.82	53.3	66.37
EL.RFI.2	72 092	71 282	44 941	18 740 013	417	98.19	94.15	54.31	61.75
EL.RFI.13	85 845	82 921	59 488	24 629 256	414	97.91	93.8	58.3	68.66
EL.RFI.12	86 659	85 371	60 159	24 875 588	413	98.2	94.3	56.32	68.79
EL.RFI.11	87 099	85 770	53 581	22 293 526	416	98.09	93.98	55.7	60.77
EL.RFI.10	94 676	92 888	58 545	24 360 030	416	98.12	94.06	54.17	61.02
EL.RFI.1	85 297	83 894	54 224	22 781 520	420	98.03	93.83	53.76	62.72
EH.RFI.9	92 734	91 399	61 530	25 235 641	410	98.25	94.45	56.44	65.63
EH.RFI.8	88 342	86 902	53 963	22 303 164	413	98.03	93.88	55.58	60.36
EH.RFI.7	98 527	96 872	63 360	26 041 902	411	98.23	94.42	59.56	63.79
EH.RFI.6	87 190	85 907	56 772	23 566 402	415	98.09	94.04	56.84	64.44
EH.RFI.5	80 889	79 469	49 905	21 018 308	421	98.06	93.91	53.95	60.84
EH.RFI.4	73 340	72 263	45 825	19 226 534	420	98.14	94.11	55.36	61.69
EH.RFI.3	84 764	83 565	50 346	21 197 768	421	98	93.81	54.51	58.54
EH.RFI.2	90 964	89 299	58 443	24 712 216	423	97.92	93.59	54.78	63.21
EH.RFI.11	79 714	78 338	50 832	21 072 336	415	98.09	93.98	53.47	62.79
EH.RFI.10	75 489	74 217	46 860	19 645 078	419	98	93.75	54.18	61.19
EH.RFI.1	85 863	84 674	52 728	22 005 214	417	98.2	94.2	53.57	60.77

Raw PE 表示原始下机的 PE reads; Raw Tags 是拼接得到的 Tags 序列; Clean Tags 是 Raw Tags 过滤低质量和短长度后的序列; Effective Tags 是过滤嵌合体后, 最终用于后续分析的 Tags 序列; Q20 和 Q30 是 Effective Tags 中碱基质量值大于 20 (测序错误率小于 1%) 和 30 (测序错误率小于 0.1%) 的碱基所占的百分比; GC (%) 表示 Effective Tags 中 GC 碱基的含量; Effective (%) 表示 Effective Tags 的数目与 Raw PE 数目的百分比。EH.RFI.1~11 为 EH-RFI 组滩羊瘤胃液样品, 其中 EH.RFI.1~5 为公滩羊瘤胃液样品, EH.RFI.6~11 为母滩羊瘤胃液样品; EL.RFI.1~13 为 EL-RFI 组滩羊瘤胃液样品, 其中 EH.RFI.1~7 为公滩羊瘤胃液样品, EH.RFI.8~13 为母滩羊瘤胃液样品。

Raw PE indicates original PE reads. Raw Tags are spliced sequences of Tags; Clean Tags are Raw Tags that filter low quality and short length sequences; Effective Tags is the sequence of Tags that are finally used for subsequent analysis after filtering chimeras. Q20 and Q30 are the percentages of bases with base quality values greater than 20 (sequencing error rate less than 1%) and 30 (sequencing error rate less than 0.1%) in Effective Tags. GC (%) represents the content of GC bases in Effective Tags; Effective (%) represents the percentage of the number of Effective Tags to the number of Raw PES. Eh.rfi.1~11 were rumen fluid samples of Tan sheep in EH-RFI group. Eh.rfi.1~5 were rumen fluid samples of male Tan sheep and Eh.rfi.6~11 were rumen fluid samples of female Tan sheep. 1~13 were rumen fluid samples of Tan sheep in EI-RFI group, eh.rfi.1~7 were rumen fluid samples of male Tan sheep, eh.rfi.8~13 were rumen fluid samples of female Tan sheep.