附表1 不同LI组织毒对猪感染实验的显著性分析

Supplementary Table 1. Significance analysis of the infection experiment in pigs challenged with different LI tissue homogenate inocula

附表1-1 各组料肉比显著性分析

Supplementary Table 1-1 Significance analysis of feed conversion ratio of pigs in each group

Tukey 多重比较检验 **Tukey's multiple comparisons test**	**显著性标记** **Summary**	**校正后 *P* 值** **Adjusted *P* value**
0–28 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.9431
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9769
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.8739
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.9966
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	0.9996
JX703 vs. LI-HuB23	ns	0.9946
GX301 vs. HN312	ns	0.9978
GX301 vs. LI-HuB23	ns	0.9991
HN312 vs. LI-HuB23	ns	0.9745

注：阴性对照为口服 SPG 阴性对照组；JX703、GX301、HN312、LI-HuB23 分别为不同来源 LI 组织毒感染组。统计学显著性定义为：ns，差异不显著；*，$P < 0.05$；**，$P < 0.01$；***，$P < 0.001$；****，$P < 0.0001$，下同。

Note: Negative Control represents pigs orally administered with sterile SPG; JX703, GX301, HN312, and LI-HuB23 represent pigs challenged with different LI tissue homogenates, respectively. Statistical significance was defined as follows: ns, not significant; *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$; ****, $P < 0.0001$, The same as below.

附表 1-2 各组猪只感染后不同时间点粪便中 LI 载量显著性分析

Supplementary Table 1-2. Significance analysis of fecal LI loads at different time points after infection in pigs.

Tukey 多重比较检验 **Tukey's multiple comparisons test**	**显著性标记** **Summary**	**校正后 *P* 值** **Adjusted *P* value**
0 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	>0.9999
阴性对照 vs. GX301 Negative control vs. GX301	ns	>0.9999
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	>0.9999
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	>0.9999
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	>0.9999
GX301 vs. LI-HuB23	ns	>0.9999
HN312 vs. LI-HuB23	ns	>0.9999
4 d		
阴性对照 vs. JX703 Negative control vs. JX703	**	0.0033
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9522
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.9348

阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.5829
JX703 vs. GX301	*	0.0322
JX703 vs. HN312	*	0.0388
JX703 vs. LI-HuB23	ns	0.1992
GX301 vs. HN312	ns	>0.9999
GX301 vs. LI-HuB23	ns	0.9437
HN312 vs. LI-HuB23	ns	0.9594
8 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	*	0.0215
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.0969
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	**	0.0076
JX703 vs. HN312	**	0.001
JX703 vs. LI-HuB23	ns	0.9905
GX301 vs. HN312	ns	0.9803
GX301 vs. LI-HuB23	*	0.0315
HN312 vs. LI-HuB23	**	0.0055
11 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	*	0.0268
阴性对照 vs. HN312 Negative control vs. HN312	**	0.0024
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	*	0.0222
JX703 vs. HN312	ns	0.1494
JX703 vs. LI-HuB23	ns	0.8728
GX301 vs. HN312	ns	0.9465
GX301 vs. LI-HuB23	***	0.0008
HN312 vs. LI-HuB23	*	0.0114
14 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	**	0.0052
阴性对照 vs. HN312 Negative control vs. HN312	**	0.0063
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	*	0.0162
JX703 vs. HN312	*	0.0136
JX703 vs. LI-HuB23	ns	0.9985
GX301 vs. HN312	ns	>0.9999
GX301 vs. LI-HuB23	*	0.0378
HN312 vs. LI-HuB23	*	0.0323
17 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	****	<0.0001
阴性对照 vs. HN312 Negative control vs. HN312	****	<0.0001
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	ns	0.1661
JX703 vs. HN312	ns	0.283
JX703 vs. LI-HuB23	ns	0.902

GX301 vs. HN312	ns	0.9987
GX301 vs. LI-HuB23	ns	0.6515
HN312 vs. LI-HuB23	ns	0.8129
19 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	****	<0.0001
阴性对照 vs. HN312 Negative control vs. HN312	****	<0.0001
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	ns	0.0888
JX703 vs. HN312	ns	0.7762
JX703 vs. LI-HuB23	ns	0.9427
GX301 vs. HN312	ns	0.647
GX301 vs. LI-HuB23	ns	0.3934
HN312 vs. LI-HuB23	ns	0.9946
21 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	****	<0.0001
阴性对照 vs. HN312 Negative control vs. HN312	****	<0.0001
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	**	0.0035
JX703 vs. HN312	ns	0.39
JX703 vs. LI-HuB23	ns	0.36
GX301 vs. HN312	ns	0.3549
GX301 vs. LI-HuB23	ns	0.3847
HN312 vs. LI-HuB23	ns	>0.9999
24 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	****	<0.0001
阴性对照 vs. HN312 Negative control vs. HN312	****	<0.0001
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	ns	0.6075
JX703 vs. HN312	ns	0.999
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	0.442
GX301 vs. LI-HuB23	ns	0.6889
HN312 vs. LI-HuB23	ns	0.9952
28 d		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	****	<0.0001
阴性对照 vs. HN312 Negative control vs. HN312	****	<0.0001
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	ns	0.9994
JX703 vs. HN312	ns	0.881
JX703 vs. LI-HuB23	ns	0.9882
GX301 vs. HN312	ns	0.954
GX301 vs. LI-HuB23	ns	0.999
HN312 vs. LI-HuB23	ns	0.9915

附表 1-3 各组猪只感染后不同时间点粪便评分显著性分析

Supplementary Table 1-3. Significance analysis of fecal scores at different time points after infection in pigs

Tukey 多重比较检验 **Tukey's multiple comparisons test**	**显著性标记** **Summary**	**校正后 *P* 值** **Adjusted *P* value**
0 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	>0.9999
阴性对照 vs. GX301 Negative control vs. GX301	ns	>0.9999
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	>0.9999
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	>0.9999
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	>0.9999
GX301 vs. LI-HuB23	ns	>0.9999
HN312 vs. LI-HuB23	ns	>0.9999
4 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	>0.9999
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9762
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	>0.9999
JX703 vs. GX301	ns	0.9762
JX703 vs. HN312	ns	>0.9999
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	0.9762
GX301 vs. LI-HuB23	ns	0.9762
HN312 vs. LI-HuB23	ns	>0.9999
8 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.7607
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9762
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.7607
JX703 vs. GX301	ns	0.9762
JX703 vs. HN312	ns	0.7607
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	0.9762
GX301 vs. LI-HuB23	ns	0.9762
HN312 vs. LI-HuB23	ns	0.7607
11 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	>0.9999
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9762
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.9762
JX703 vs. GX301	ns	0.9762
JX703 vs. HN312	ns	>0.9999
JX703 vs. LI-HuB23	ns	0.9762
GX301 vs. HN312	ns	0.9762
GX301 vs. LI-HuB23	ns	>0.9999
HN312 vs. LI-HuB23	ns	0.9762

14 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.9762
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.7607
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	>0.9999
JX703 vs. GX301	ns	0.9762
JX703 vs. HN312	ns	0.9762
JX703 vs. LI-HuB23	ns	0.9762
GX301 vs. HN312	ns	0.7607
GX301 vs. LI-HuB23	ns	0.7607
HN312 vs. LI-HuB23	ns	>0.9999
17 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.9762
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9762
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.7607
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.9762
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	0.9762
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	0.9762
GX301 vs. LI-HuB23	ns	>0.9999
HN312 vs. LI-HuB23	ns	0.9762
19 d		
阴性对照 vs. JX703 Negative control vs. JX703	*	0.028
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9762
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.7607
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.7607
JX703 vs. GX301	ns	0.1282
JX703 vs. HN312	ns	0.3904
JX703 vs. LI-HuB23	ns	0.3904
GX301 vs. HN312	ns	0.9762
GX301 vs. LI-HuB23	ns	0.9762
HN312 vs. LI-HuB23	ns	>0.9999
21 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.3904
阴性对照 vs. GX301 Negative control vs. GX301	*	0.028
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.7607
JX703 vs. GX301	ns	0.7607
JX703 vs. HN312	ns	0.3904
JX703 vs. LI-HuB23	ns	0.9762
GX301 vs. HN312	*	0.028
GX301 vs. LI-HuB23	ns	0.3904
HN312 vs. LI-HuB23	ns	0.7607
24 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.9762
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9762

阴性对照 vs. HN312 Negative control vs. HN312	ns	0.9762
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	>0.9999
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	>0.9999
JX703 vs. LI-HuB23	ns	0.9762
GX301 vs. HN312	ns	>0.9999
GX301 vs. LI-HuB23	ns	0.9762
HN312 vs. LI-HuB23	ns	0.9762
28 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	>0.9999
阴性对照 vs. GX301 Negative control vs. GX301	ns	>0.9999
阴性对照 vs. HN312 Negative control vs. HN312	ns	>0.9999
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	>0.9999
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	>0.9999
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	>0.9999
GX301 vs. LI-HuB23	ns	>0.9999
HN312 vs. LI-HuB23	ns	>0.9999
总计 Total		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	****	<0.0001
阴性对照 vs. HN312 Negative control vs. HN312	*	0.028
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	****	<0.0001
JX703 vs. LI-HuB23	*	0.028
GX301 vs. HN312	****	<0.0001
GX301 vs. LI-HuB23	*	0.028
HN312 vs. LI-HuB23	ns	0.3904

附表 1-4 各组猪只不同感染阶段平均日增重显著性分析

Supplementary Table 1-4. Significance analysis of average daily gain at different infection stages in pigs

Tukey 多重比较检验 **Tukey's multiple comparisons test**	**显著性标记** **Summary**	**校正后 *P* 值** **Adjusted *P* value**
0–7 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.2077
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.3166
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.0555
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.7121
JX703 vs. GX301	ns	0.9993
JX703 vs. HN312	ns	0.9764
JX703 vs. LI-HuB23	ns	0.9023
GX301 vs. HN312	ns	0.9223
GX301 vs. LI-HuB23	ns	0.9666
HN312 vs. LI-HuB23	ns	0.5825
7–14 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.5257

阴性对照 vs. GX301 Negative control vs. GX301	ns	0.967
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.7121
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.9938
JX703 vs. GX301	ns	0.9219
JX703 vs. HN312	ns	0.9983
JX703 vs. LI-HuB23	ns	0.7801
GX301 vs. HN312	ns	0.9819
GX301 vs. LI-HuB23	ns	0.999
HN312 vs. LI-HuB23	ns	0.9126
14–21 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.4336
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.2609
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.8113
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.8404
JX703 vs. GX301	ns	0.9936
JX703 vs. HN312	ns	0.9718
JX703 vs. LI-HuB23	ns	0.9608
GX301 vs. HN312	ns	0.8548
GX301 vs. LI-HuB23	ns	0.8287
HN312 vs. LI-HuB23	ns	>0.9999
21–28 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.9989
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.9526
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.3015
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.8404
JX703 vs. GX301	ns	0.9902
JX703 vs. HN312	ns	0.4516
JX703 vs. LI-HuB23	ns	0.9397
GX301 vs. HN312	ns	0.7968
GX301 vs. LI-HuB23	ns	0.999
HN312 vs. LI-HuB23	ns	0.8912
0–28 d		
阴性对照 vs. JX703 Negative control vs. JX703	ns	0.6155
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.643
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.4028
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	ns	0.8825
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	0.9971
JX703 vs. LI-HuB23	ns	0.9885
GX301 vs. HN312	ns	0.9986
GX301 vs. LI-HuB23	ns	0.9875
HN312 vs. LI-HuB23	ns	0.9223

附表 1-5 实验猪肠道组织的病理评分显著性分析

Supplementary Table 1-5. Significance analysis of pathological scores of intestinal tissues in experimental pigs

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
回肠 Ileum		
阴性对照 vs. JX703 Negative control vs. JX703	*	0.0396
阴性对照 vs. GX301 Negative control vs. GX301	ns	0.1239
阴性对照 vs. HN312 Negative control vs. HN312	*	0.0396
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	*	0.0396
JX703 vs. GX301	ns	0.9885
JX703 vs. HN312	ns	>0.9999
JX703 vs. LI-HuB23	ns	>0.9999
GX301 vs. HN312	ns	0.9885
GX301 vs. LI-HuB23	ns	0.9885
HN312 vs. LI-HuB23	ns	>0.9999
盲肠 Cecum		
阴性对照 vs. JX703 Negative control vs. JX703	***	0.0005
阴性对照 vs. GX301 Negative control vs. GX301	***	0.0005
阴性对照 vs. HN312 Negative control vs. HN312	ns	0.1239
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	*	0.0105
JX703 vs. GX301	ns	>0.9999
JX703 vs. HN312	ns	0.3097
JX703 vs. LI-HuB23	ns	0.8683
GX301 vs. HN312	ns	0.3097
GX301 vs. LI-HuB23	ns	0.8683
HN312 vs. LI-HuB23	ns	0.8683
总分 Total		
阴性对照 vs. JX703 Negative control vs. JX703	****	<0.0001
阴性对照 vs. GX301 Negative control vs. GX301	****	<0.0001
阴性对照 vs. HN312 Negative control vs. HN312	****	<0.0001
阴性对照 vs. LI-HuB23 Negative control vs. LI-HuB23	****	<0.0001
JX703 vs. GX301	ns	0.9885
JX703 vs. HN312	ns	0.3097
JX703 vs. LI-HuB23	ns	0.8683
GX301 vs. HN312	ns	0.5969
GX301 vs. LI-HuB23	ns	0.9885
HN312 vs. LI-HuB23	ns	0.8683

附表2 不同剂量的LI分离株及LI组织毒对猪的感染实验的显著性分析

Supplementary Table 2. Significance analysis of the infection experiment in pigs challenged with different doses of LI isolates and tissue homogenates

附表2-1 各组料肉比显著性分析

Supplementary Table 2-1 Significance analysis of feed conversion ratio of pigs in each group

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
0–28 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	>0.9999

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	>0.9999
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.9999
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999

注：Negative Control 为口服 SPG 阴性对照组；LI-HuB23-10^{10} LI、LI-HuB23-10^8 LI、LI-HuB23-10^6 LI 分别为 LI-HuB23 分离株以 1×10^{10}、1×10^8、1×10^6 LI/头剂量口服感染组；JX703-10^{10} LI、JX703-10^8 LI、JX703-10^6 LI 分别为 JX703 组织毒以 1×10^{10}、1×10^8、1×10^6 LI/头剂量口服感染组。统计学显著性定义为：ns，差异不显著；*，$P < 0.05$；**，$P < 0.01$；***，$P < 0.001$；****，$P < 0.0001$，下同。

Note: Negative Control represents pigs orally administered with sterile SPG; LI-HuB23-10^{10} LI, LI-HuB23-10^8 LI, and LI-HuB23-10^6 LI represent pigs orally challenged with LI-HuB23 isolate at the dose of 1×10^{10}, 1×10^8, and 1×10^6 LI per pig, respectively; JX703-10^{10} LI, JX703-10^8 LI, and JX703-10^6 LI represent pigs orally challenged with JX703 tissue homogenate at the dose of 1×10^{10}, 1×10^8, and 1×10^6 LI per pig, respectively. Statistical significance was defined as follows: ns, not significant; *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$; ****, $P < 0.0001$, The same as below.

附表 2-2 各组猪只感染后不同时间点粪便中 LI 载量显著性分析

Supplementary Table 2-2. Significance analysis of fecal LI loads at different time points after infection in pigs.

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
0 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^6 LI	ns	>0.9999

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
Negative control vs. LI-HuB23 - 10^6 LI		
阴性对照 vs. JX703 - 10^{10} LI	ns	>0.9999
Negative control vs. JX703 - 10^{10} LI		
阴性对照 vs. JX703 - 10^8 LI	ns	>0.9999
Negative control vs. JX703 - 10^8 LI		
阴性对照 vs. JX703 - 10^6 LI	ns	>0.9999
Negative control vs. JX703 - 10^6 LI		
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
3 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI	ns	>0.9999
Negative control vs. LI-HuB23 - 10^{10} LI		
阴性对照 vs. LI-HuB23 - 10^8 LI	ns	>0.9999
Negative control vs. LI-HuB23 - 10^8 LI		
阴性对照 vs. LI-HuB23 - 10^6 LI	ns	>0.9999
Negative control vs. LI-HuB23 - 10^6 LI		
阴性对照 vs. JX703 - 10^{10} LI	ns	0.4442
Negative control vs. JX703 - 10^{10} LI		
阴性对照 vs. JX703 - 10^8 LI	ns	>0.9999
Negative control vs. JX703 - 10^8 LI		
阴性对照 vs. JX703 - 10^6 LI	ns	>0.9999
Negative control vs. JX703 - 10^6 LI		
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.4442
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.4442
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.4442
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.4442
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.4442
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
6 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI	ns	0.4462
Negative control vs. LI-HuB23 - 10^{10} LI		
阴性对照 vs. LI-HuB23 - 10^8 LI	ns	0.9196
Negative control vs. LI-HuB23 - 10^8 LI		
阴性对照 vs. LI-HuB23 - 10^6 LI	ns	>0.9999
Negative control vs. LI-HuB23 - 10^6 LI		
阴性对照 vs. JX703 - 10^{10} LI	**	0.001
Negative control vs. JX703 - 10^{10} LI		
阴性对照 vs. JX703 - 10^8 LI	**	0.0016
Negative control vs. JX703 - 10^8 LI		
阴性对照 vs. JX703 - 10^6 LI	ns	>0.9999

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
Negative control vs. JX703 - 10^6 LI		
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9819
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.4462
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.3279
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.396
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.4462
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9196
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	*	0.0492
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.0673
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9196
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	**	0.001
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	**	0.0016
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	**	0.001
JX703 - 10^8 LI vs. JX703 - 10^6 LI	**	0.0016
9 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.794
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.1312
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	***	0.0004
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.9425
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9006
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.794
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	***	0.0003
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.0539
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9998
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.1312
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	*	0.0217
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.5754
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.7148
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	****	<0.0001
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	***	0.0004
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9425
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.7504
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	****	<0.0001
JX703 - 10^8 LI vs. JX703 - 10^6 LI	*	0.018
12 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.0632
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	****	<0.0001
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	****	<0.0001
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9792
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.0967
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.977
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9996
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.5011

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.6047
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.8699
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9881
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	**	0.0071
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	*	0.0314
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.1196
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9993
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9631
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9989
15 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	*	0.0151
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.3062
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	****	<0.0001
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	**	0.0054
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.2016
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	**	0.0073
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9992
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9781
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.3565
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9018
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.0652
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.7187
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	**	0.0013
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.0968
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.7554
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.837
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.1393
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.8782
18 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.054
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	****	<0.0001
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	****	<0.0001
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9457
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	**	0.0036
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9957
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9774
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.0921
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9873
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	**	0.0092
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	*	0.0301
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.0588
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9998

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
JX703 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.9967
JX703 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	>0.9999
21 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^{8} LI Negative control vs. LI-HuB23 - 10^{8} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^{6} LI Negative control vs. LI-HuB23 - 10^{6} LI	****	<0.0001
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^{8} LI Negative control vs. JX703 - 10^{8} LI	****	<0.0001
阴性对照 vs. JX703 - 10^{6} LI Negative control vs. JX703 - 10^{6} LI	****	<0.0001
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{8} LI	ns	0.9693
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{6} LI	ns	0.4724
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9991
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{8} LI	ns	0.7783
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.4825
LI-HuB23 - 10^{8} LI vs. LI-HuB23 - 10^{6} LI	ns	0.9547
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{10} LI	ns	0.9995
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{8} LI	ns	0.9985
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	0.9579
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{10} LI	ns	0.7838
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{8} LI	ns	0.9992
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{6} LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^{8} LI	ns	0.9619
JX703 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.7922
JX703 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	0.9993
26 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^{8} LI Negative control vs. LI-HuB23 - 10^{8} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^{6} LI Negative control vs. LI-HuB23 - 10^{6} LI	***	0.0001
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^{8} LI Negative control vs. JX703 - 10^{8} LI	ns	0.0555
阴性对照 vs. JX703 - 10^{6} LI Negative control vs. JX703 - 10^{6} LI	*	0.0104
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{8} LI	ns	0.5879
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{6} LI	*	0.0431
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.3463
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{8} LI	****	<0.0001
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{6} LI	***	0.0007
LI-HuB23 - 10^{8} LI vs. LI-HuB23 - 10^{6} LI	ns	0.861
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{10} LI	ns	0.9998
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{8} LI	*	0.0462
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	0.1814
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{10} LI	ns	0.9714
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{8} LI	ns	0.6041
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{6} LI	ns	0.904
JX703 - 10^{10} LI vs. JX703 - 10^{8} LI	ns	0.1225
JX703 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.3683
JX703 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	0.9981
28 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^{8} LI Negative control vs. LI-HuB23 - 10^{8} LI	****	<0.0001

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	****	<0.0001
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	****	<0.0001
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	****	<0.0001
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.926
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.9967
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9983
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.8359
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9565
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9988
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9975
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.9906
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.985
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9993
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9999

附表 2-3 各组猪只感染后不同时间点粪便评分显著性分析

Supplementary Table 2-3. Significance analysis of fecal scores at different time points after infection in pigs

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
0 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	>0.9999
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
3 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	>0.9999
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
6 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9997
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.9997
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	>0.9999
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.9997
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9997
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
9 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9862
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.9997
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.9862
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.9997
阴性对照 vs. JX703 - 10^6 LI	ns	0.9997

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
Negative control vs. JX703 - 10^6 LI		
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9862
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9862
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9997
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
12 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9997
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.9997
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.9997
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.7008
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.9862
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9019
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9019
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.9019
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9862
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9019
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9997
15 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.9862
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.9997
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.9862
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9862

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.9862
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9997
18 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9997
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.9997
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.9862
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9862
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9862
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9862
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
21 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9019
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.7008
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.9997
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.4398
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.4398
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.9862
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9862
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9862
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9019
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9019
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9997
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.7008
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.7008
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.7008
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
JX703 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.4398
JX703 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	0.4398
26 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9862
阴性对照 vs. LI-HuB23 - 10^{8} LI Negative control vs. LI-HuB23 - 10^{8} LI	ns	0.9997
阴性对照 vs. LI-HuB23 - 10^{6} LI Negative control vs. LI-HuB23 - 10^{6} LI	ns	0.9997
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.9997
阴性对照 vs. JX703 - 10^{8} LI Negative control vs. JX703 - 10^{8} LI	ns	0.9997
阴性对照 vs. JX703 - 10^{6} LI Negative control vs. JX703 - 10^{6} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{8} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{6} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{8} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.9997
LI-HuB23 - 10^{8} LI vs. LI-HuB23 - 10^{6} LI	ns	>0.9999
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{8} LI	ns	>0.9999
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	>0.9999
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{8} LI	ns	>0.9999
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{6} LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^{8} LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	>0.9999
JX703 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	>0.9999
28 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9997
阴性对照 vs. LI-HuB23 - 10^{8} LI Negative control vs. LI-HuB23 - 10^{8} LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^{6} LI Negative control vs. LI-HuB23 - 10^{6} LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.9997
阴性对照 vs. JX703 - 10^{8} LI Negative control vs. JX703 - 10^{8} LI	ns	0.9997
阴性对照 vs. JX703 - 10^{6} LI Negative control vs. JX703 - 10^{6} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{8} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^{6} LI	ns	0.9997
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{8} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.9997
LI-HuB23 - 10^{8} LI vs. LI-HuB23 - 10^{6} LI	ns	>0.9999
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{8} LI	ns	0.9997
LI-HuB23 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	>0.9999
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{10} LI	ns	0.9997
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{8} LI	ns	0.9997
LI-HuB23 - 10^{6} LI vs. JX703 - 10^{6} LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^{8} LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^{6} LI	ns	0.9997
JX703 - 10^{8} LI vs. JX703 - 10^{6} LI	ns	0.9997
总分 Total		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	***	0.0004
阴性对照 vs. LI-HuB23 - 10^{8} LI Negative control vs. LI-HuB23 - 10^{8} LI	ns	0.2208

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	*	0.0301
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	***	0.0004
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.4398
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.4398
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.9019
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.4398
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.2208
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9862
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	**	0.002
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.4398
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9997
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	*	0.0301
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.9019
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9019
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.4398
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	***	0.0004
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.2208

附表 2-4 各组猪只不同感染阶段平均日增重显著性分析

Supplementary Table 2-4. Significance analysis of average daily gain at different infection stages in pigs

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
0–7 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.9672
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	>0.9999
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.4334
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.8675
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9929
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.2937
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9475
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9941
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9712
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.0628
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.2813
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9531
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.4184
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.8776
JX703 - 10^8 LI vs. JX703 - 10^6 LI	*	0.0245
7–14 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	>0.9999
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.8675

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.8346
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.9998
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.8346
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.8675
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9993
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9416
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.1347
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9133
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9748
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.7147
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.7715
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.6068
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
14–21 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9995
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.5908
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.543
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	>0.9999
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.4953
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.846
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.8105
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.7715
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.6999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.7715
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.654
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.6068
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.7294
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.6848
21–28 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	**	0.0067
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	**	0.0067
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.3464
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.3888
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.7293
阴性对照 vs. JX703 - 10^6 LI	ns	0.9991

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* value
Negative control vs. JX703 - 10^6 LI		
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.7294
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.6848
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.3464
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	*	0.0303
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.7293
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.6847
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.3464
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	*	0.0303
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.9969
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.654
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9985
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.6999
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9416
0–28 d		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	ns	0.9582
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.9848
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.9993
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	ns	0.8543
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.973
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.9985
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9848
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.9989
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9961
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.9803
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.9994
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	>0.9999
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9997
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9229
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9915

附表 2-5 实验猪肠道组织的病理评分显著性分析

Supplementary Table 2-5. Significance analysis of pathological scores of intestinal tissues in experimental pigs

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* Value
回肠 Ileum		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	**	0.01
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	ns	0.5592
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.8302
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	**	0.01
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	*	0.0372
阴性对照 vs. JX703 - 10^6 LI	ns	0.5592

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* Value
Negative control vs. JX703 - 10^6 LI		
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.5592
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.2879
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9994
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.5592
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.9994
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.5592
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.8302
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.2879
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.5592
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.9994
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9994
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.5592
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.8302
盲肠 Cecum		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	*	0.0372
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	**	0.01
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.8302
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	**	0.01
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	ns	0.1154
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	ns	0.1154
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.9994
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	ns	0.5592
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9994
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9994
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9994
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.2879
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	>0.9999
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9725
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9725
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	ns	0.2879
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	ns	0.8302
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.8302
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9725
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.9725
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	>0.9999
总分 Total		
阴性对照 vs. LI-HuB23 - 10^{10} LI Negative control vs. LI-HuB23 - 10^{10} LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^8 LI Negative control vs. LI-HuB23 - 10^8 LI	****	<0.0001
阴性对照 vs. LI-HuB23 - 10^6 LI Negative control vs. LI-HuB23 - 10^6 LI	ns	0.1154
阴性对照 vs. JX703 - 10^{10} LI Negative control vs. JX703 - 10^{10} LI	****	<0.0001
阴性对照 vs. JX703 - 10^8 LI Negative control vs. JX703 - 10^8 LI	****	<0.0001
阴性对照 vs. JX703 - 10^6 LI Negative control vs. JX703 - 10^6 LI	***	0.0005
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^8 LI	ns	0.8302
LI-HuB23 - 10^{10} LI vs. LI-HuB23 - 10^6 LI	**	0.0023
LI-HuB23 - 10^{10} LI vs. JX703 - 10^{10} LI	ns	0.9994
LI-HuB23 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.9725
LI-HuB23 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.2879
LI-HuB23 - 10^8 LI vs. LI-HuB23 - 10^6 LI	ns	0.1154

Tukey 多重比较检验 Tukey's multiple comparisons test	显著性标记 Summary	校正后 *P* 值 Adjusted *P* Value
LI-HuB23 - 10^8 LI vs. JX703 - 10^{10} LI	ns	0.5592
LI-HuB23 - 10^8 LI vs. JX703 - 10^8 LI	ns	0.9994
LI-HuB23 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.9725
LI-HuB23 - 10^6 LI vs. JX703 - 10^{10} LI	***	0.0005
LI-HuB23 - 10^6 LI vs. JX703 - 10^8 LI	*	0.0372
LI-HuB23 - 10^6 LI vs. JX703 - 10^6 LI	ns	0.5592
JX703 - 10^{10} LI vs. JX703 - 10^8 LI	ns	0.8302
JX703 - 10^{10} LI vs. JX703 - 10^6 LI	ns	0.1154
JX703 - 10^8 LI vs. JX703 - 10^6 LI	ns	0.8302