WGS Quality Control Report

Batch Name: 2024-07-04

Experiment Name: 24ARS_EMR_LG788

Isolate No.	Sample ID	Description	ARSRL	WGS
1	23ARS_VSM0511	SAL68	Salmonella species	Salmonella enterica subsp. enterica serovar Enteritidis
2	24ARS_BRH0014	EMR142_2	Pseudomonas aeruginosa	Pseudomonas aeruginosa
3	24ARS_BRT0017	EMR141_2	Pseudomonas aeruginosa	Pseudomonas aeruginosa
4	24ARS_CRH0017	EMR146	Escherichia coli	Escherichia coli
5	24ARS_CRH0030	EMR148	Klebsiella pneumoniae	Klebsiella quasipneumoniae
6	24ARS_DMC0098	EMR149	Klebsiella pneumoniae	Klebsiella pneumoniae
7	24ARS_DMC0102	EMR157	Pseudomonas aeruginosa	Pseudomonas aeruginosa
8	24ARS_EVR0011	EMR155	Pseudomonas aeruginosa	Pseudomonas aeruginosa
9	24ARS_EVR0017	EMR158	Pseudomonas aeruginosa	Pseudomonas aeruginosa
10	24ARS_GMH0029	EMR145	Klebsiella pneumoniae	Klebsiella pneumoniae
11	24ARS_JLM0018	EMR143	Klebsiella pneumoniae	Klebsiella pneumoniae
12	24ARS_JLM0020	EMR144	Klebsiella pneumoniae	Klebsiella quasipneumoniae
13	24ARS_NKI0048	EMR147	Escherichia coli	Escherichia coli
14	24ARS_NKI0050	EMR150	Klebsiella pneumoniae	Klebsiella pneumoniae
15	24ARS_NKI0051	EMR151	Klebsiella pneumoniae	Klebsiella pneumoniae
16	24ARS_SLH0030	EMR154	Pseudomonas aeruginosa	Pseudomonas aeruginosa
17	24ARS_STU0024	EMR152	Klebsiella pneumoniae	Klebsiella pneumoniae
18	24ARS_STU0027	EMR153	Acinetobacter baumannii	Acinetobacter pittii
19	24ARS_ZMC0002	EMR156	Pseudomonas aeruginosa	Pseudomonas aeruginosa
20	UTP_BL_006	tricycle	Escherichia coli	Escherichia coli
21	UTP_ST_031	tricycle	Escherichia coli	Escherichia coli

Legend:

PASS	WARNING	FAILURE	EXCEEDS THRESHOLD METRIC/S	NON-CONCORDANT

Sample excluded in the analysis

Sample ID	Description	Index reads	Remarks
24ARS_NKI0053	EMR159	0.8429	low read count

Isolate No.	Sample ID	Contamination	Contigs	GC Percent	N50	Total Length
1	23ARS_VSM0511	0	24	52.13	478941	4700439
2	24ARS_BRH0014	0	84	65.97	247991	6878546
3	24ARS_BRT0017	0	122	65.33	220628	7348540
4	24ARS_CRH0017	0	127	50.53	136602	5373741
5	24ARS_CRH0030	0	39	57.75	801312	5379490
6	24ARS_DMC0098	0	44	57.19	479099	5405179
7	24ARS_DMC0102	0	51	66.32	488628	6482852
8	24ARS_EVR0011	0	47	66.47	407140	6291421
9	24ARS_EVR0017	0	131	66.36	151006	6423637
10	24ARS_GMH0029	0	110	56.65	172819	5772594
11	24ARS_JLM0018	0	95	56.79	394359	5742923
12	24ARS_JLM0020	0	77	57.65	229344	5512178
13	24ARS_NKI0048	0	93	50.83	320376	5148168
14	24ARS_NKI0050	0	55	57.20	236088	5425644
15	24ARS_NKI0051	0	81	56.82	238924	5595191
16	24ARS_SLH0030	0	99	65.94	361062	6937344
17	24ARS_STU0024	0	55	57.13	303929	5493891
18	24ARS_STU0027	0	17	38.58	519454	3995354
19	24ARS_ZMC0002	0	89	66.46	197528	6319285
20	UTP_BL_006	0	44	50.61	279880	4940847

| 21 | UTP_ST_031 | 0 | 109 | 50.42 | 166206 | 5380880 |

List of samples above/below QC threshold metrics

Sample ID	Remarks
	No QC failures found.

WGS_ID	Number
Pseudomonas aeruginosa	7
Klebsiella pneumoniae	6
Escherichia coli	4
Klebsiella quasipneumoniae	2
Acinetobacter pittii	1
Salmonella enterica subsp. enterica serovar Enteritidis	1

- 6 distinct species were identified among 21 isolates.

- 95.24 % (n=20) of the isolates passed the QC, while 4.76 % (n=1) were tagged with warning.

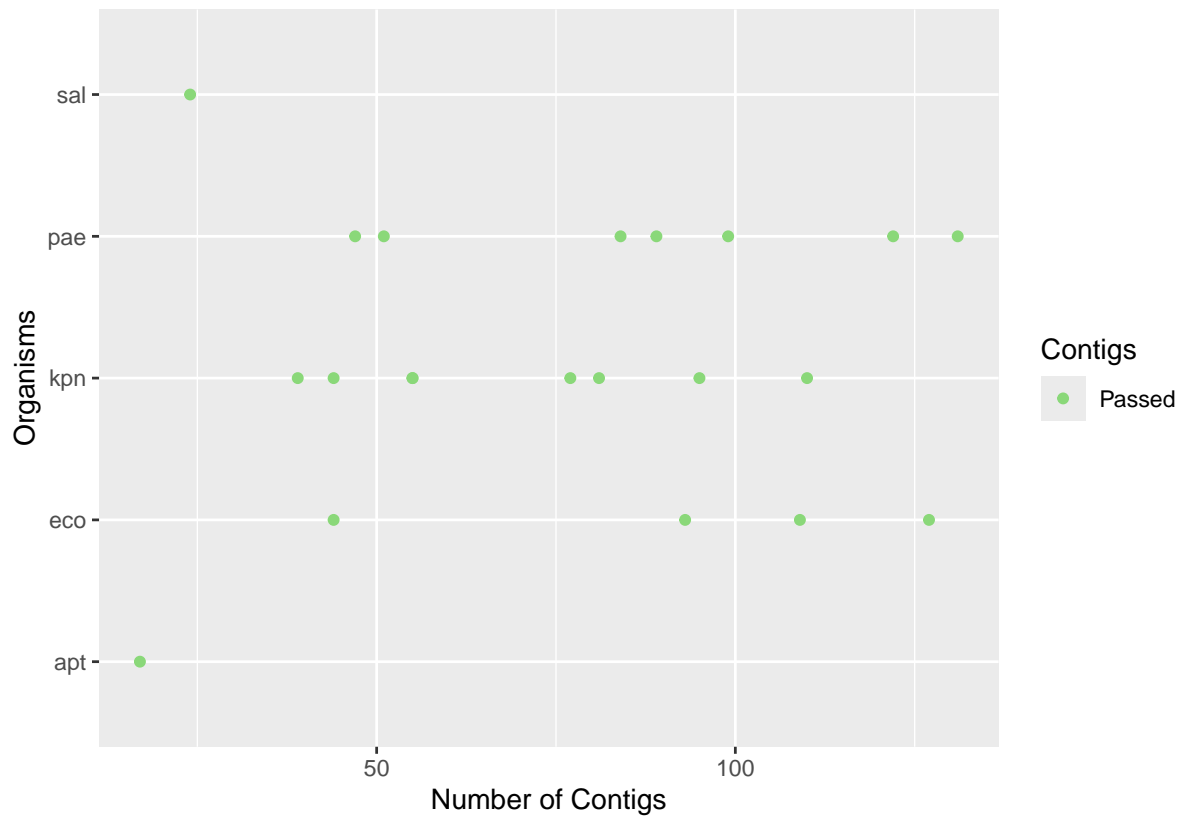- Concordance between ARSRL and WGS species report was 100.00 %.
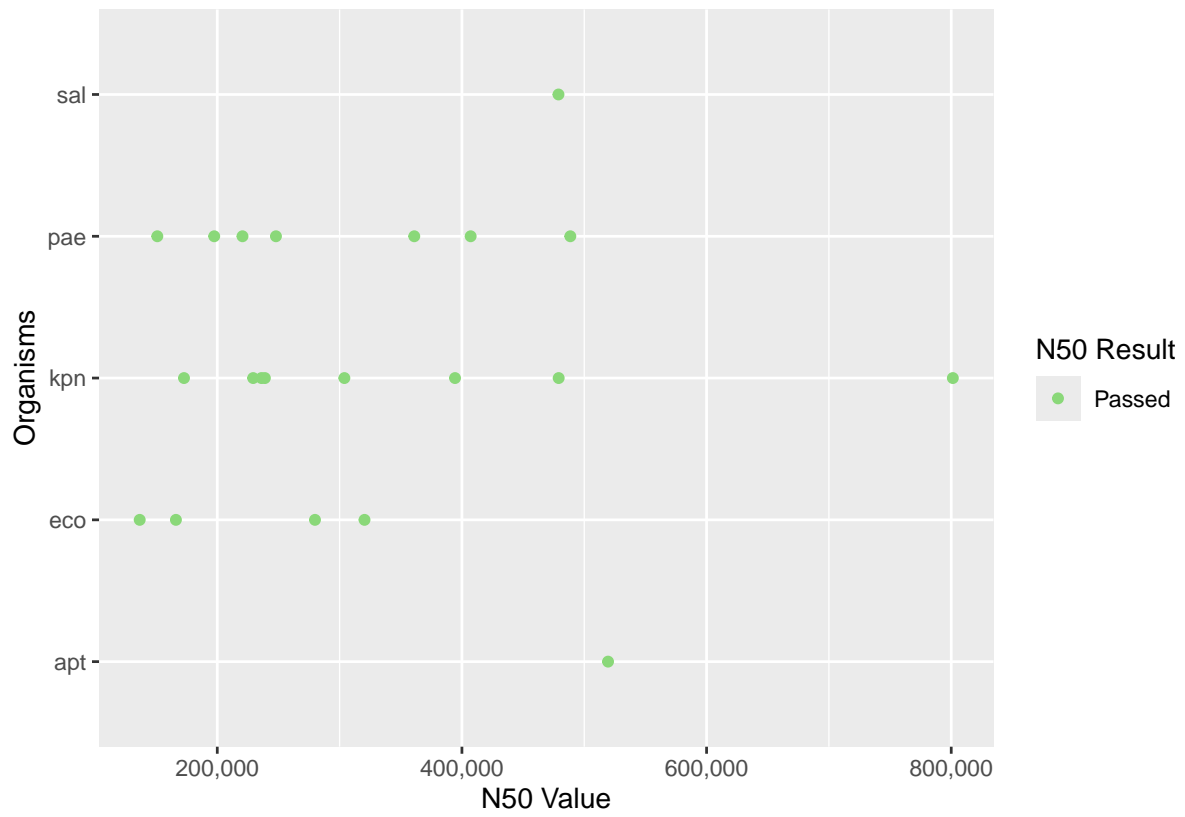
GRAPHS

Frequency
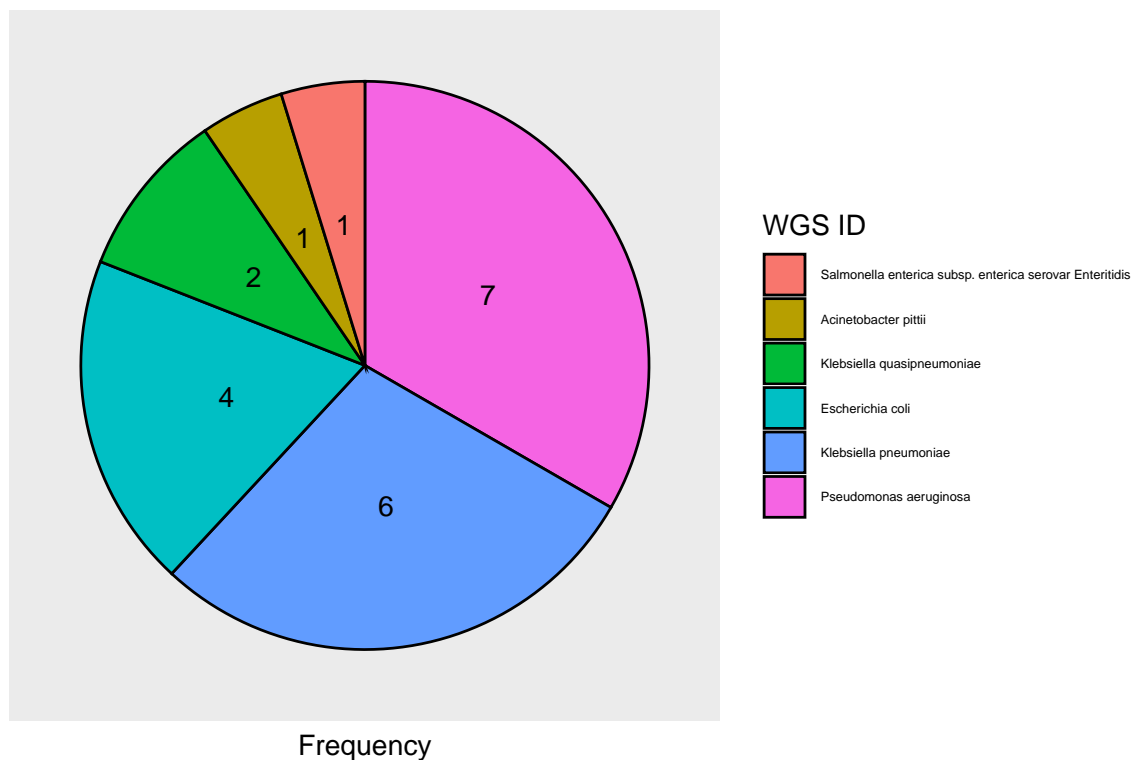
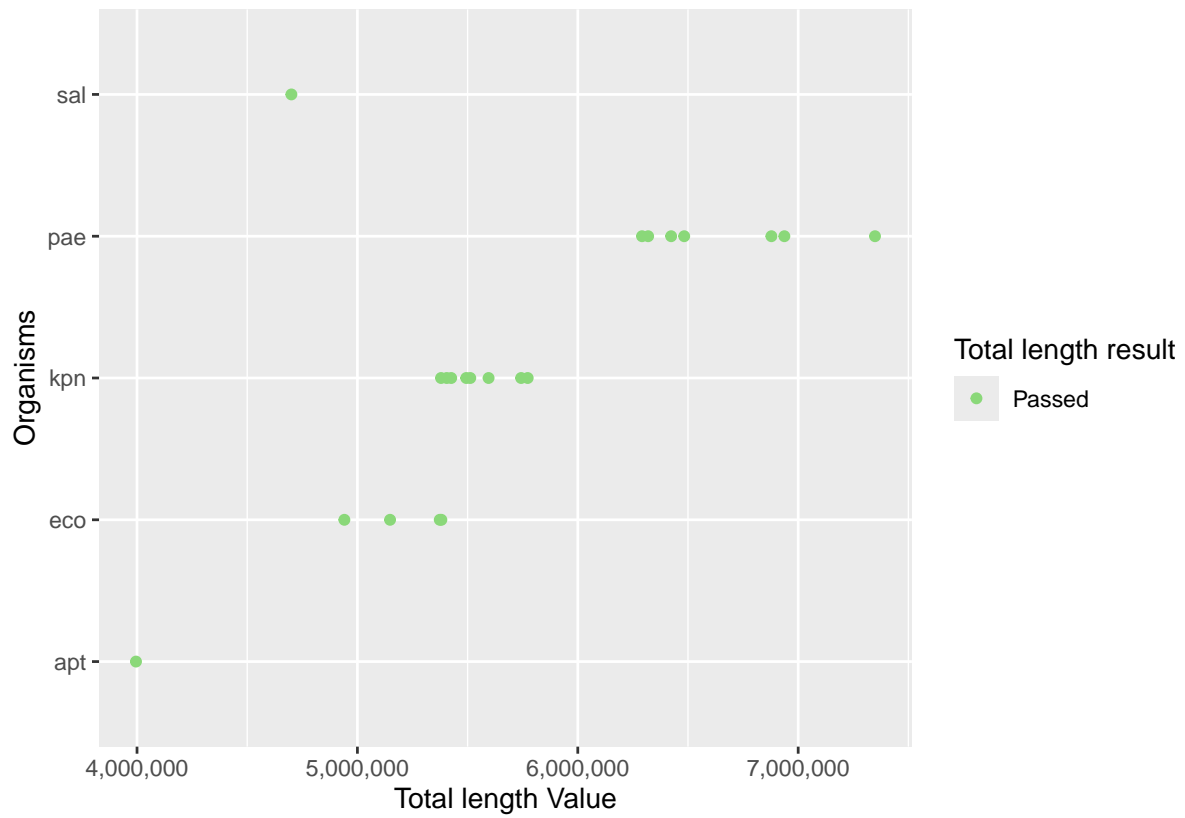**Result Classification**
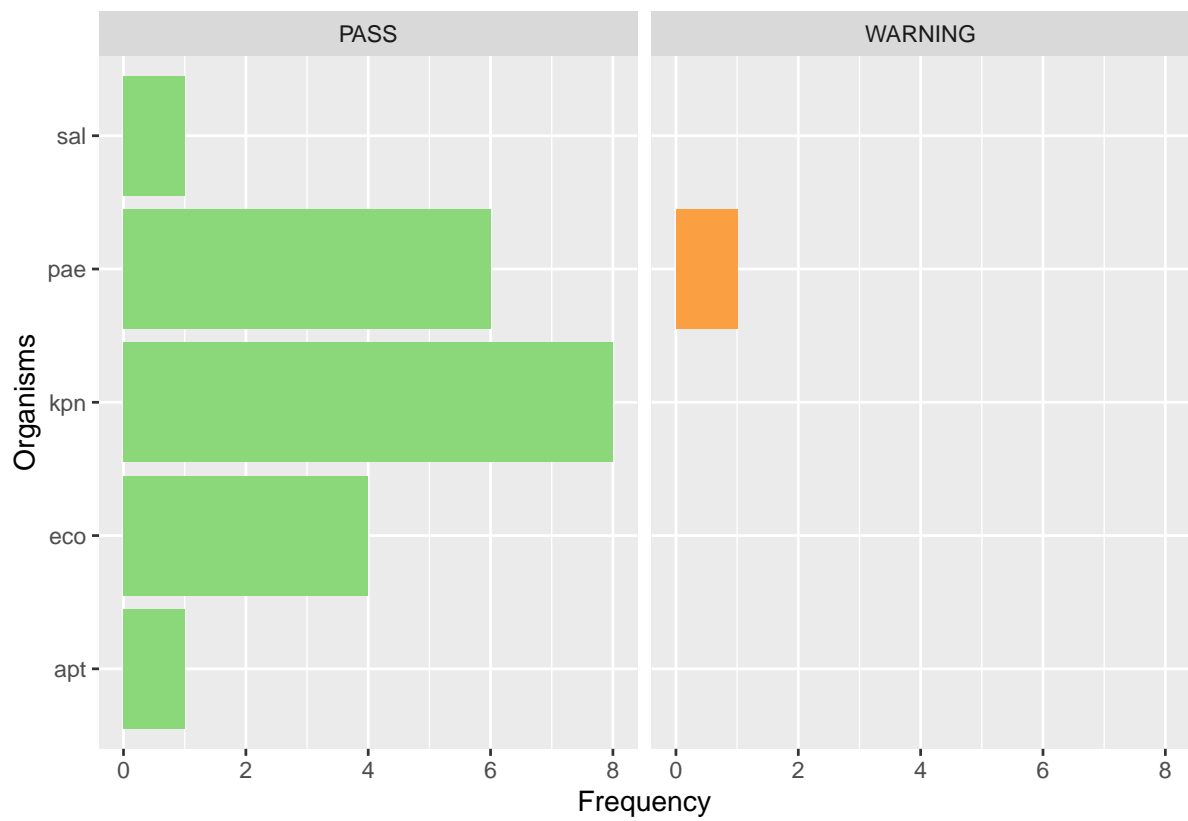
Number of contigs

N50 Value

Total Length

RECOMMENDATION:

Sample ID	Action	Reason
No further action required for this batch.		

MLST AND AMR GENE RESULTS:

df	df	df	df	df
df_senterica_achtman_2	df_paeruginosa	df_ecoli_achtman_4	df_klebsiella	df_abaumannii_2