

**Table S9**

**Table S9:** Read mapping coverage of plaque-forming phages from organic waste sample. Total reads of each sample were mapped to the genomes. Depth coverage (black): trimmed mean pileup coverage. Breadth coverage (red) Percentage of the contig positions covered by mapped reads. Gray: genomes with breadth coverage >=80%.

Phage	Viral population	Baseline depth	Baseline breadth	All depth	All breadth
DrKristoffer	NODE_5	0.103	51.28%	3.929	98.86%
GhoastToast	GhoastToast	0.023	25.49%	0.018	34.55%
Hovsa	NODE_16	0.015	21.77%	0.295	60.04%
OtownIsak	NODE_16	0.065	50.70%	4.393	99.99%
SummerBoyErik	SummerBoyErik	0.037	32.17%	0.024	42.61%

Phage	Viral population	DC3000 + A depth	DC3000 + A breadth	DC3000 + B depth	DC3000 + B breadth	DC3000 + C depth	DC3000 + C breadth	DC3000 + depth	DC3000 + breadth
DrKristoffer	NODE_5	52.287	94.52%	0.310	55.23%	0.538	59.72%	16.562	98.25%
GhoastToast	GhoastToast	0.000	4.77%	0.000	0.84%	0.000	1.89%	0.000	6.67%
Hovsa	NODE_16	0.529	37.02%	1.141	43.88%	0.972	42.21%	0.937	49.57%
OtownIsak	NODE_16	14.643	99.14%	18.284	99.12%	11.018	99.06%	15.151	99.99%
SummerBoyErik	SummerBoyErik	0.000	2.21%	0.000	2.80%	0.000	1.24%	0.000	5.30%

Phage	Viral population	DC3000 - A depth	DC3000 - A breadth	DC3000 - B depth	DC3000 - B breadth	DC3000 - C depth	DC3000 - C breadth	DC3000 - depth	DC3000 - breadth
DrKristoffer	NODE_5	0.083	35.36%	0.053	26.80%	0.062	31.47%	0.081	54.39%
GhoastToast	GhoastToast	0.000	6.69%	0.013	15.06%	0.010	14.36%	0.014	23.90%
Hovsa	NODE_16	0.157	36.16%	0.154	38.32%	0.029	20.41%	0.126	47.26%
OtownIsak	NODE_16	3.014	98.78%	1.837	97.30%	0.494	86.67%	1.793	99.04%
SummerBoyErik	SummerBoyErik	0.000	8.82%	0.014	15.46%	0.012	15.62%	0.018	28.42%