

Supplementary Table 1. Experimental parameters (factors) and levels for formulations containing lactose or trehalose, leucine, pluronic F68 and PEG.

Parameter	Level		
	1	2	3
Lactose or Trehalose (mg/mL)	0	6	12
Leucine (mg/mL)	0	2.8	5.5
Pluronic F68 %(v/v)	0	0.27	0.54
PEG (mg/mL)	0	5	10

Supplementary Table 2. Experimental parameters (factors) and levels for formulations containing mannitol, glycine, leucine, pluronic F68 and PEG.

Parameter	Levels		
	1	2	3
Mannitol (mg/mL)	0	6	12
Glycine (mg/mL)	0	10	20
Leucine (mg/mL)	0	2.8	5.5
Pluronic F68 %(v/v)	0	0.27	0.54
PEG (mg/mL)	0	5	10

Supplementary Table 3. Master table enlisting formulation information of all the phage formulations produced in this study.

Phage	Formulation composition (mg/mL)					
	Trehalose	Lactose	Leucine	Pluronic		
				F68	PEG3000	
PEV1			2.8	0.0027	5	
			5.5	0.0054	10	
			6	0.0027	10	
			6	0.0054		
			6	0.0027	5	
			10	0.0054		
			12	0.0054	5	
			12	2.8	10	
			12	5.5	0.0027	
			14	11		
			17	8		
			20	5		
			23	2		
PEV20			2.8	0.0027	5	
			5.5	0.0054	10	
			6	0.0027	10	
			6	0.0054		
			6	0.0027	5	
			10	0.0054		
			12	0.0054	5	
			12	2.8	10	
			12	5.5	0.0027	
			14	11		
			17	8		
			20	5		
			23	2		

