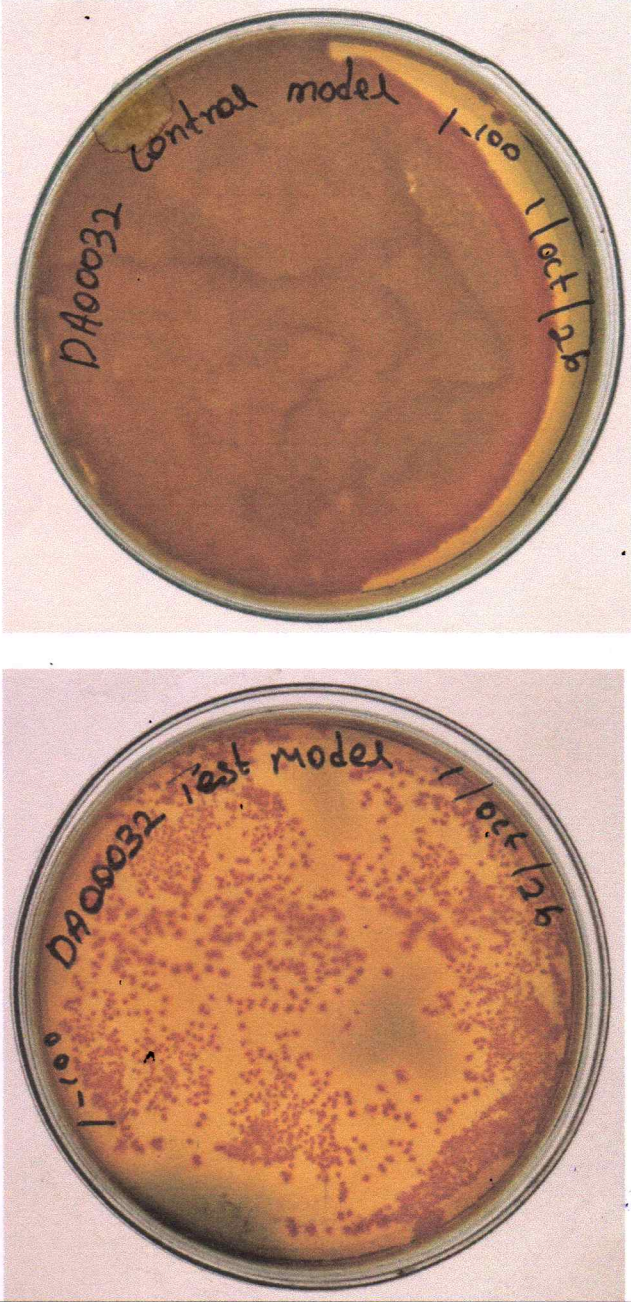


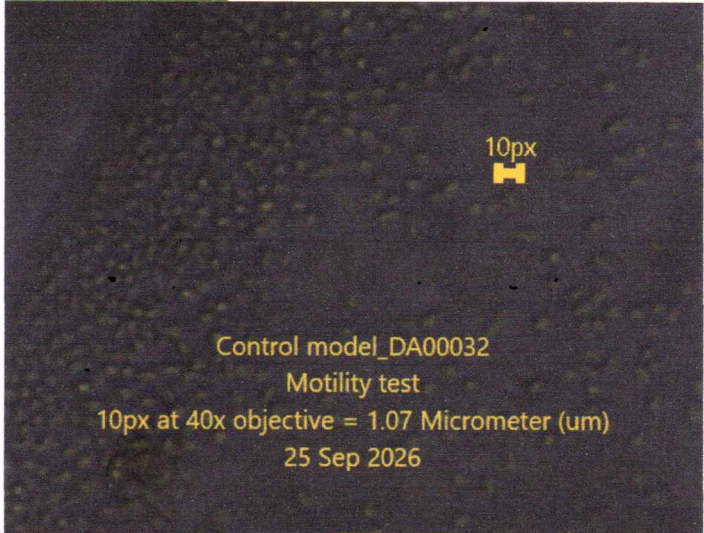
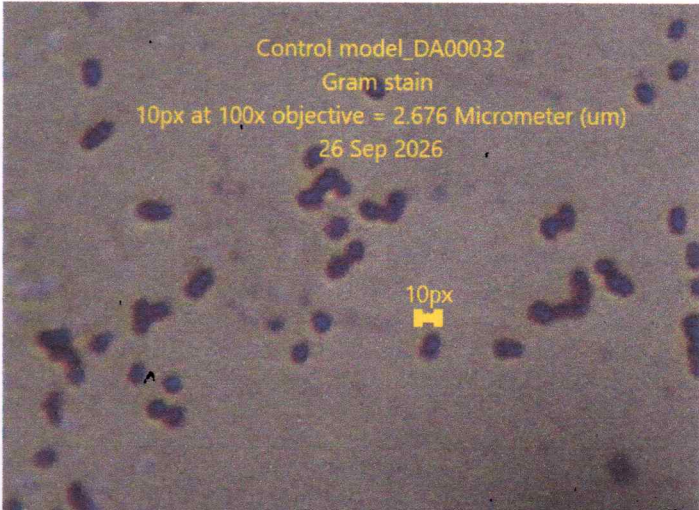


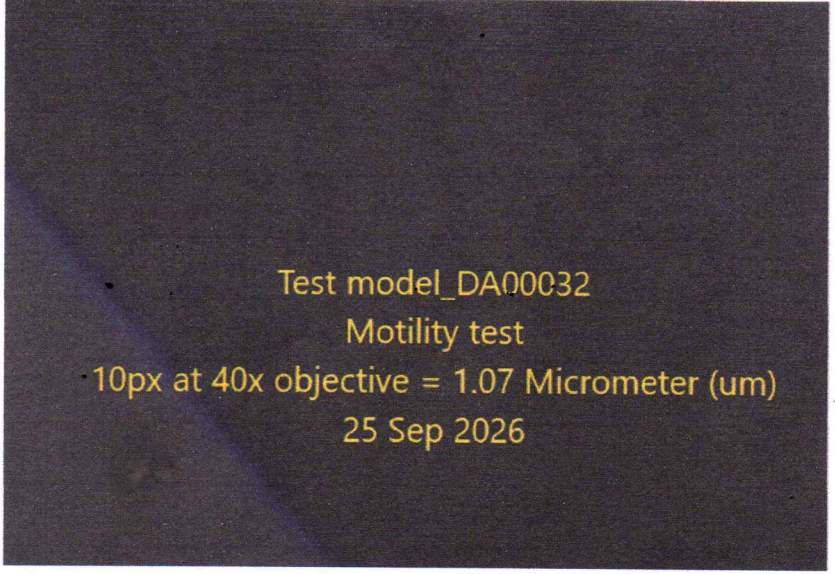
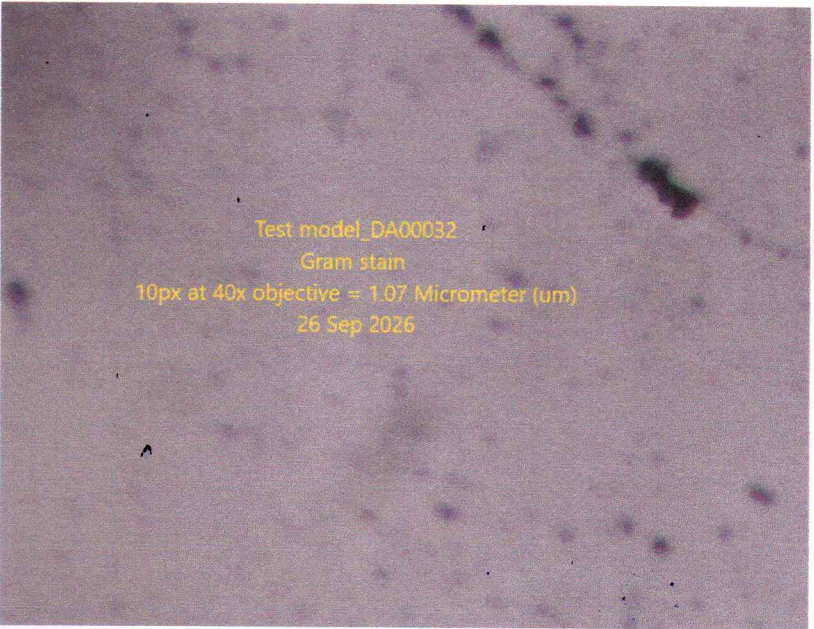
DRIFTACT QUALITY CONTROL DOCUMENT

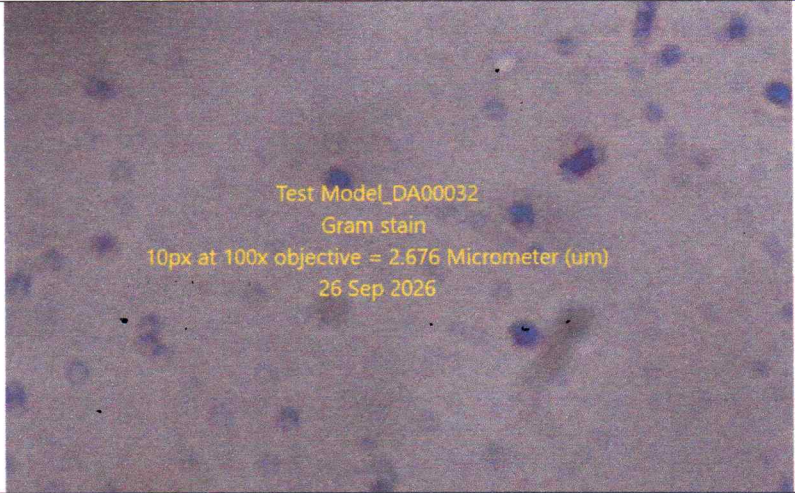
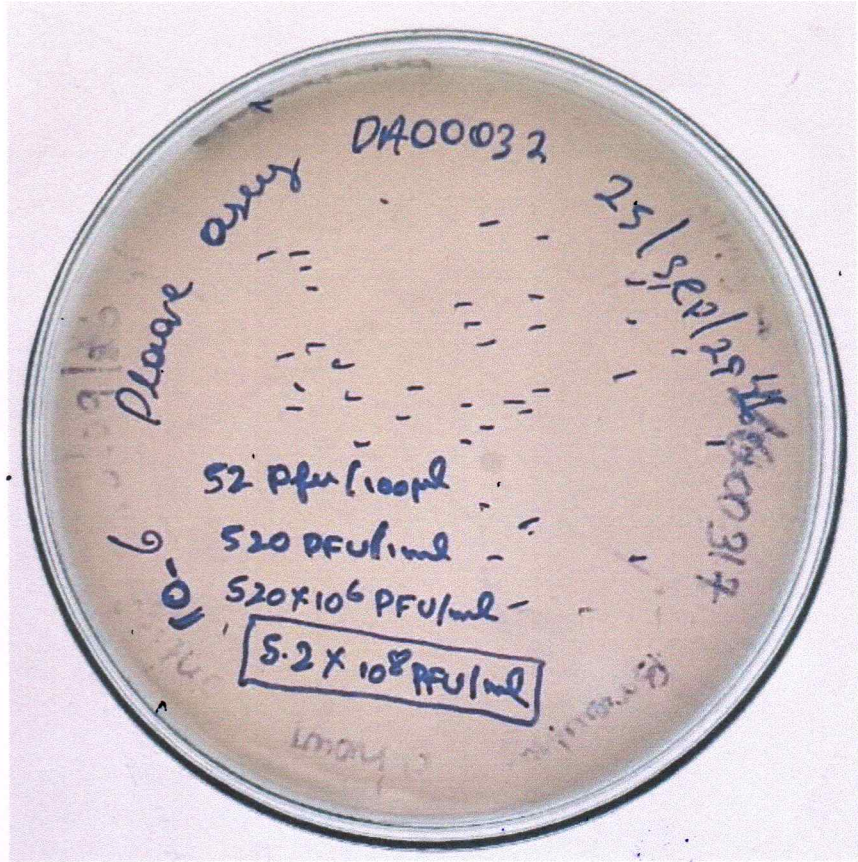
LOT NUMBER: DA00032

QC COMPLETED DATE: 03 October2026

QUALITY CONTROL TESTS DONE	Expected outcome	Actual outcome
BIO-PRODUCTION QC- DRIFTACT		
<p>TEST MODEL& CONTROL MODEL SAMPLE ON TCBS AGAR AFTER PHAGE TREATMENT FOR 4 HOURS.</p> <p>(The quality check uses one of the vibrio host as the model host and tests its viability when grown alone (Control Model) and when grown along with the presence of treated, final reference phages (Test Model))</p>	<p>Reduced number of viable cfu in Test Model when compared to Control Model.</p>	<p>Expected outcome</p> 

OBSERVATION OF CONTROL MODEL CULTURE ALIQUOT IN HANGING DROP FOR MOTILITY TEST	Expected to see higher cell density when compared to Test Model. Uniform single cell to be observed across the drop.	<p>Expected outcome</p>  <p>Control model_DA00032 Motility test 10px at 40x objective = 1.07 Micrometer (um) 25 Sep 2026</p> <p>10px</p>
GRAM STAINING OF CONTROL MODEL CULTURE ALIQUOT.	Gram negative cells and presence of Vibrio cell morphology	<p>Expected outcome</p>  <p>Control model_DA00032 Gram stain 10px at 40x objective = 1.07 Micrometer (um) 26 Sep 2026</p> <p>10px</p>  <p>Control model_DA00032 Gram stain 10px at 100x objective = 2.676 Micrometer (um) 26 Sep 2026</p> <p>10px</p>

OBSERVATION OF TEST MODEL CULTURE ALIQUOT IN HANGING DROP FOR MOTILITY TEST	Expected to see Reduced cell density when compared to Control Model. Uniform single cell to be observed across the drop.	<p>Expected outcome.</p>  <p>Test model_DA00032 Motility test 10px at 40x objective = 1.07 Micrometer (um) 25 Sep 2026</p>
GRAM STAINING OF TEST MODEL CULTURE ALIQUOT.	Gram negative cells and presence of Vibrio cell morphology Note: Micrograph of 100x objective (1000x magnification) not obtained as there was considerable reduction in bacterial cell density due to phage treatment. Only image with 40x	<p>Expected outcome</p>  <p>Test model_DA00032 Gram stain 10px at 40x objective = 1.07 Micrometer (um) 26 Sep 2026</p>

	objective is captured.	
PHAGE TITRATION USING MODEL HOST BY DILUTION PLATING OF PHAGES ON MODEL HOST.	Countable plaque forming units (PFU).	<div>Expected outcome.</div>  <p>Phage count: 5.2×10^8 PFU per mL.</p>

OD ₆₀₀ SPECTROPHOTOMETER RESULTS						
OPTICAL DENSITY OF CONTROL MODEL CULTURE.	MINIMUM OF OD ₆₀₀ = 0.5	<div>Expected outcome</div> <div>OD₆₀₀ = 1.658</div> <div></div> <div>DA00032_Control Model_OD @ 600 nm.rar</div>				
OPTICAL DENSITY OF TEST MODEL CULTURE.	OD ₆₀₀ TO BE LESS THAN THE HOST ONLY ALIQUOT CULTURE.	<div>Expected outcome</div> <div>OD₆₀₀ = 0.069</div> <div></div> <div>DA00032_Test Model_OD @ 600 nm.rar</div>				
COMBINED SPECTRAL SCAN IMAGE OF CONTROL MODEL VS TEST MODEL	TEST MODEL TO HAVE LOWER ABSORBANCE CHARACTERS THAN CONTROL MODEL.	<div><div>SYSTRONICS VIS Double Beam Spectro - 1203</div><div>Date : 25-09-2026Time : 04-11-29 PM</div><div>Name : Systronics Sample ID :</div><div>SCAN ANALYSIS</div><div></div><div>LEGENDS: BlankDA00032_Test Model_OD @ 600 nmDA00032_Control Model_OD @ 600 nm</div><div><div>POINT PICK</div><div><table><tr><td>Wavelength</td><td>ABS</td></tr><tr><td>600.0</td><td>1.658</td></tr></table></div></div><div></div><div>DA00032_Control Model vs Test model_OD @ 600 nm.rar</div></div>	Wavelength	ABS	600.0	1.658
Wavelength	ABS					
600.0	1.658					
OPTICAL DENSITY OF HOST ONLY ALIQUOT CULTURE-	APPROXIMATE OF OD ₆₀₀ = 1	<div>Expected outcome</div> <div>OD₆₀₀ = 1.351</div>				

REFERENCE HOST (Bioreactor Sample)		 Reference_Host_Bioreactor_Sample_DA00032.rar
TCBS SPOT TEST OF TREATED, FINAL REFERENCE PHAGE.	THE TREATED FINAL REFERENCE PHAGES TESTED IS TO BE COMPLETELY FREE OF VIBRIO.	<div>Expected outcome</div> 

QUALITY
APPROVED