August 22, 2026 **[DRIFTACT FINISHED PRODUCT-QC CHECK]**

Product tested: DriftAct

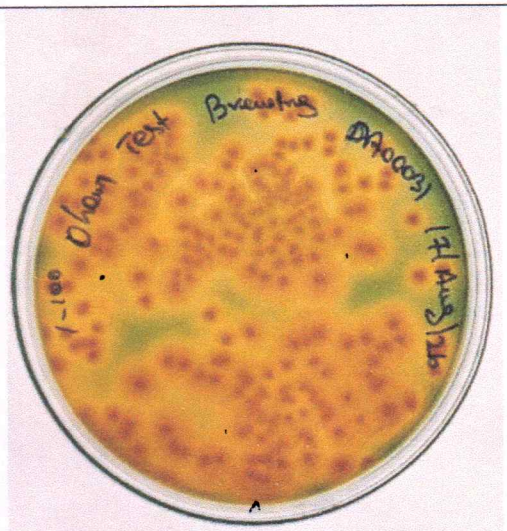
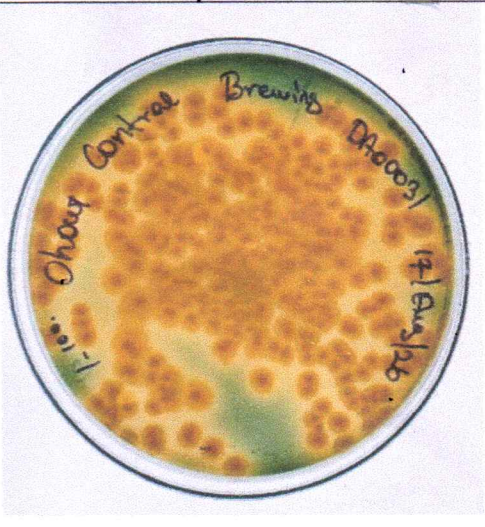
Batch tested and Lot number: DA00031

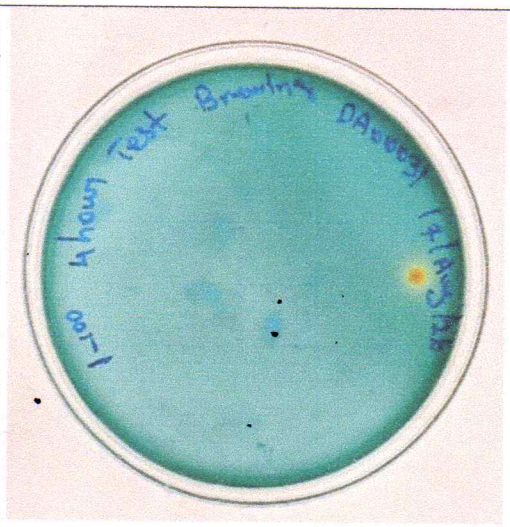
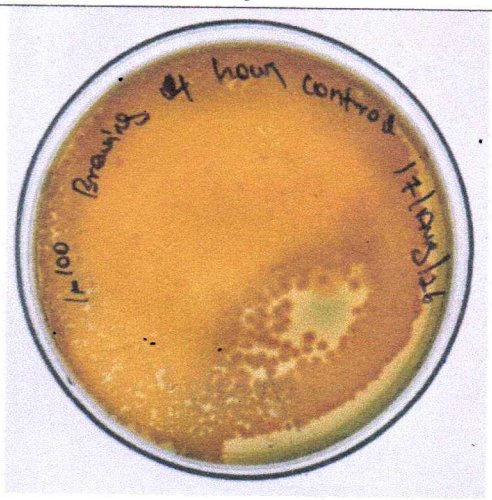
Note: Host 5a is used as a model host for the application simulation trial.

Brewing set up:

External aeration provided with air pump and the brewing carried out for 4 hours.

Axenic culture of one representative Vibrio culture for which corresponding phage is present in DriftAct is used as host and the response monitored with respect to DriftAct application.

Parameters/ additives	Test Brewing [Model Host with DriftAct]	Control Brewing [Model Host only]
Reverse osmosis purified water	1.5 L	1.5 L
Sodium Chloride [MERCK, EMPARTA]	45 grams	45 grams
Jaggery	4.5 grams	4.5 grams
Axenic vibrio culture	Added 0.5mL in both test and control tanks.	
DriftAct	1 Vial added and allowed to float	NOT ADDED [Model Host only]
Zero hour sample, TCBS plating with 0.1mL neat sample		
Inference for zero hour sample plating	Vibrio growth observed Expected outcome.	Vibrio host detected Expected outcome.

Four hours sample, TCBS plating with 0.1mL neat sample		
Inference from Four hours sample plating	Reduced Vibrio growth observed Indicates reduced Vibrio load Expected outcome.	Vibrio growth observed the cell count in more than zero hour plating. Indicates increased Vibrio load Expected outcome

Note: All culture plates incubated at 32°C in BOD incubator until colonies were observed.

Result:

Brewing for four hours yielded Test plate showing reduced growth of Vibrio, phages in the DriftAct vial killed the maximum Hosts in the test tank. Whereas control plate shows the increased Vibrio growth.

QUALITY
APPROVED