

MICROBIOLOGY REPORT



LMS TECHNOLOGIES, INC.

6423 Cecilia Circle
Bloomington, MN 55439 USA

Tel :952-918-9060
Fax:952-918-9061

Date: May 26, 2020
Test Type: Single pass efficiency

Test Requested by: Surgically Clean Air
Contact: Mark Clawsey

Scope: Perform a single pass test on customer's filter, model # JADE green cylindrical filter with MS-2 phage (ATCC 15597-B1), Staph Aureus (ATCC 6538) and Aspergillus Niger (ATCC 1004). Calculate efficiency.

Method: Single pass efficiency testing. Organisms were grown on appropriate media, harvested and resuspended in saline to 1×10^8 cfu /ml. Suspensions of organisms were then aerosolized into the testing duct using a nebulizer for 5 min at flow rate of 300 cfm. Downstream air was sampled using a SKC Biostage impactor calibrated to draw 28 liters/min. The recovered organisms were enumerated after 1-2 days incubation. The efficiency was calculated by:

formula: Efficiency = (Upstream-downstream)/Upstream) x100

Microbiologists
John Cherne & Autumn Stivers-Biscuso

Testing Approval
Al Vatine, CEO



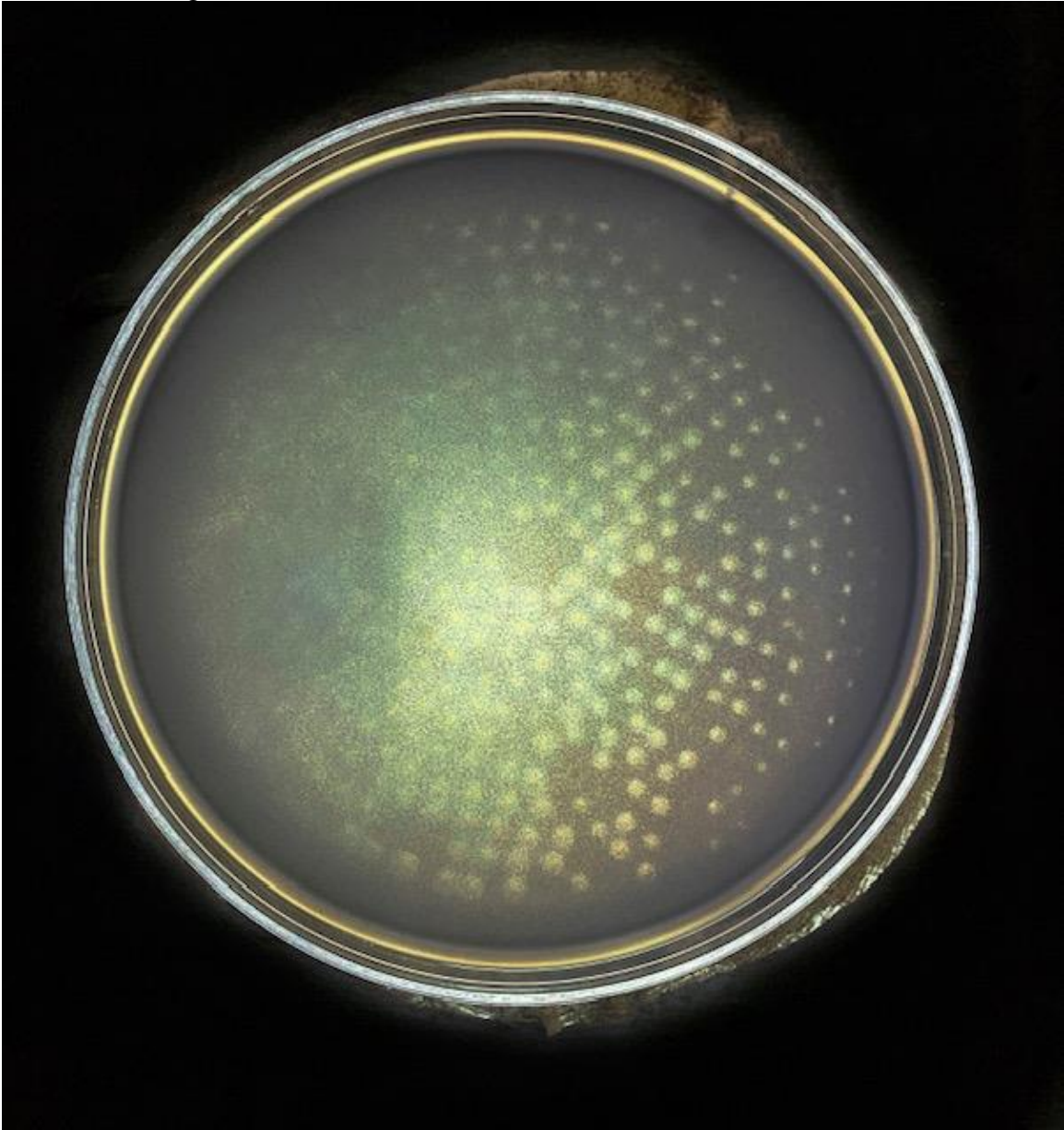
Data:

Organism	Upstream cfus	Downstream cfus	Efficiency
MS-2	4.0E+05	15	99.996%
Staph Aureus	6.3E+05	12	99.998%
Aspergillus Niger	7.3E+05	2	99.999%

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Photo MS2 Phage



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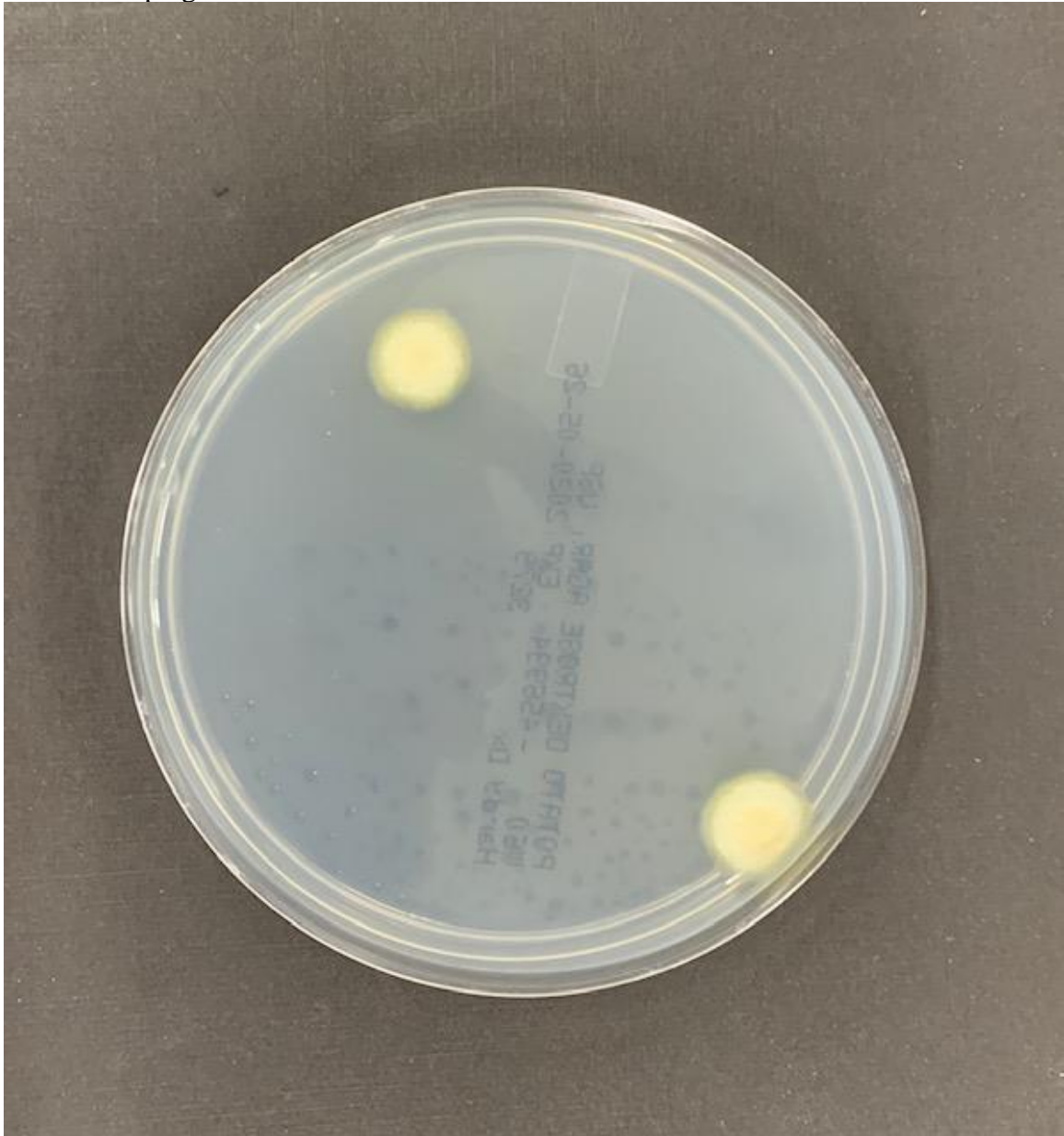
Photo Staph



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Photo of Aspergillus



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