



QFT LABORATORY, LLC.

1041 Glassboro Road Suite E-4, Williamstown NJ 08094

PHONE 856-533-0445 www.enviroteklab.com

EPA ID # NJ01298 IAPMO ID# 000102 NJDEP ID # 08021 ANAB Cert ID AT-2866



Send To:

Project Manager

KLT Filtration

Stuary Road, Kings Lynn

Norfolk, GB 43235

44 (0) 1553-622007

Customer Name: KLT Filtration

Tested To: Klebsiella Reduction PT 100%

Description: Inline Filter #Red

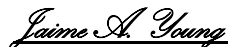
Test Type: Research and Development

Project Manager: Jaime Young

Thank you for having your product tested by QFT Laboratory, LLC.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization


Jaime A. Young
Lab Director

Date: 08/24/2020



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Klebsiella Reduction PT 100%: Failed

Manufacturer's Name: KLT Filtration

Sample Type: Research and Development

Product: Plumbed in without reservoir

Flow Rate: 2.5 Liters/min

Filter Capacity: 10,000 Liters

Conditioning Procedure: Flush for 5 minutes

Cycle: 50/50

Performance Indicator Device: No, test to 100% Capacity

Test Description: Klebsiella Reduction Testing

Trade Designation/Model Number: Red Filter

Unit Volume: 0.8 L

Performance Standard: NSF P231



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Filter #Red Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 Klebsiella (CFU/L)	Effluent 1 Klebsiella (CFU/L)	% Reduction
10 UV	10 UV	101,000,000	32	100.0000%
5%	500 Liters	101,000,000	88	99.9999%
10%	1000 Liters	101,000,000	124	99.9999%
15%	1500 Liters	101,000,000	145	99.9999%
20%	2000 Liters	101,000,000	150	99.9999%
25%	2500 Liters	101,000,000	225	99.9998%
30%	3000 Liters	101,000,000	498	99.9995%
35%	3500 Liters	101,000,000	498	99.9995%
40%	4000 Liters	101,000,000	542	99.9995%
45%	4500 Liters	101,000,000	639	99.9994%
50%	5000 Liters	101,000,000	734	99.9993%
55%	5500 Liters	101,000,000	1240	99.9988%
60%	6000 Liters	101,000,000	1860	99.9982%
65%	6500 Liters	101,000,000	2340	99.9977%
70%	7000 Liters	101,000,000	5560	99.9945%
75%	7500 Liters	101,000,000	1980	99.9980%
80%	8000 Liters	101,000,000	2144	99.9979%
85%	8500 Liters	101,000,000	1836	99.9982%
90%	9000 Liters	101,000,000	1730	99.9983%
95%	9500 Liters	101,000,000	1440	99.9986%
100%	10000 Liters	101,000,000	915	99.9991%

Klebsiella Reporting Limit: 1 CFU

Filter #Red Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 Rotavirus (PFU/L)	Effluent 1 Rotavirus (PFU/L)	% Reduction
25%	2500 Liters	11,000,000	99.9873%	99.9873%
30%	3000 Liters	11,000,000	99.9855%	99.9855%
35%	3500 Liters	11,000,000	99.9800%	99.9800%
40%	4000 Liters	11,000,000	99.9845%	99.9845%
45%	4500 Liters	11,000,000	99.9127%	99.9127%
50%	5000 Liters	11,000,000	99.9873%	99.9873%
55%	5500 Liters	11,000,000	99.9791%	99.9791%
60%	6000 Liters	11,000,000	99.9836%	99.9836%
65%	6500 Liters	11,000,000	99.9709%	99.9709%
70%	7000 Liters	11,000,000	99.9491%	99.9491%
75%	7500 Liters	11,000,000	99.9564%	99.9564%
80%	8000 Liters	11,000,000	99.9818%	99.9818%
85%	8500 Liters	11,000,000	99.9536%	99.9536%
90%	9000 Liters	11,000,000	99.9718%	99.9718%
95%	9500 Liters	11,000,000	99.9300%	99.9300%
100%	10000 Liters	11,000,000	99.9736%	99.9736%



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Water Characteristics

Sample Point	pH (7.0 to 8.0)	Temperature (17 to 23°C)	Alkalinity (190 to 210 mg/L)	Turbidity (<1 NTU)
10 UV	7.3	20	201	0.4
5%	7.2	21	201	0.2
10%	7.3	20	204	0.2
15%	7.2	20	206	0.3
20%	7.2	20	203	0.2
25%	7.3	21	208	0.3
30%	7.2	21	214	0.2
35%	7.3	21	212	0.2
40%	7.4	21	219	0.3
45%	7.3	21	217	0.3
50%	7.3	22	224	0.3
55%	7.4	22	227	0.4
60%	7.4	22	215	0.4
65%	7.3	23	209	0.5
70%	7.4	23	204	0.4
75%	7.5	23	206	0.6
80%	7.5	23	216	0.5
85%	7.4	23	209	0.6
90%	7.5	23	207	0.6
95%	7.4	23	208	0.7
100%	7.5	23	213	0.7
Average	7.3	22	210	0.4

Filter System Tested



Disclaimer: The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

Jaime A. Young

Jaime A. Young
Lab Director