



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

Send To:

Sean Ellis

Project Manager

KLT Filtration

Stuary Road, Kings Lynn

Norfolk, GB 43235

44(0) 1553-622007

Tested To: NSF P231 Microbiological Reduction

Description: Inline Filter #CF521W

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

Jaime A. Young
Lab Director

Date: 02/27/2020



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NSF Standard P231 Microorganism Reduction PT 100%

Sample Type: Research and Development

Product: Plumbed in without reservoir

Flow Rate: 2.5 Liters/Minute

Cycle: 50/50

Filter Capacity: 10,000 liters

Conditioning Procedure: Flush for 5 minutes

Performance Indicator Device: No, test to 100% Capacity

Trade Designation/Model Number: CF521W

Unit Volume: 1.0 L

Test Description: NSF P231 Microbiological Reduction Testing

Performance Standard: NSF P231- 2003

Pass/Fail Criteria (Maximum Product Water Concentration):

Bacteria: The system shall reduce the influent concentration by at least 99.999%

Virus: The system shall reduce the influent concentration by at least 99.99%

Microspheres: The system shall reduce the influent concentration by at least 99.9%

Decision Rule: Pass/Fail based on simple acceptance of the analytical results above the NSF/ANSI Std limit



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Klebsiella Reduction Table

Sample Point	Influent Concentration in CFU/L	Effluent 1 Concentration in CFU/L	% Reduction
10 UV	374,400,000	120,000	99.97%
500 Liters	374,400,000	1,512,000	99.60%
1000 Liters	374,400,000	1,296,000	99.65%
1500 Liters	374,400,000	672,000	99.82%
2000 Liters	374,400,000	1,120,000	99.71%
2500 Liters	374,400,000	2,145,000	99.43%
3000 Liters	374,400,000	1,944,000	99.48%
3500 Liters	374,400,000	715,200	99.81%
4000 Liters	374,400,000	339,600	99.91%
4500 Liters	374,400,000	2,016,000	99.46%
5000 Liters	374,400,000	4,284,000	98.86%
5500 Liters	374,400,000	2,808,000	99.25%
6000 Liters	374,400,000	2,448,000	99.35%
6500 Liters	374,400,000	28,600	99.99%
7000 Liters	374,400,000	288,000	99.92%
7500 Liters	374,400,000	648,000	99.83%
8000 Liters	374,400,000	1,296,000	99.65%
8500 Liters	374,400,000	2,124,000	99.43%
9000 Liters	374,400,000	1,008,000	99.73%
9500 Liters	374,400,000	1,692,000	99.55%
10000 Liters	374,400,000	2,376,000	99.37%

Rotavirus Reduction Table

Sample Point	Influent Concentration in PFU/L	Effluent 1 Concentration in PFU/L	% Reduction
10 UV	18,100,000	380,000	97.90%
500 Liters	18,100,000	210,000	98.84%
1000 Liters	18,100,000	80,000	99.56%
1500 Liters	18,100,000	30,000	99.83%
2000 Liters	18,100,000	460,000	97.46%
2500 Liters	18,100,000	370,000	97.96%
3000 Liters	18,100,000	220,000	98.78%
3500 Liters	18,100,000	210,000	98.84%
4000 Liters	18,100,000	140,000	99.23%
4500 Liters	18,100,000	430,000	97.62%
5000 Liters	18,100,000	470,000	97.40%
5500 Liters	18,100,000	1280,000	92.93%
6000 Liters	18,100,000	1090,000	93.98%
6500 Liters	18,100,000	90,000	99.50%
7000 Liters	18,100,000	390,000	97.85%
7500 Liters	18,100,000	440,000	97.57%
8000 Liters	18,100,000	610,000	96.63%
8500 Liters	18,100,000	660,000	96.35%
9000 Liters	18,100,000	720,000	96.02%
9500 Liters	18,100,000	560,000	96.91%
10000 Liters	18,100,000	450,000	97.51%

Microsphere Reduction Table

Sample Point	Influent Concentration Microspheres/L	Effluent Microspheres/L	% Reduction
10 UV	1,037,200	300	99.97%
500 Liters	1,037,200	960	99.91%
1000 Liters	1,037,200	2880	99.72%
1500 Liters	1,037,200	520	99.95%
2000 Liters	1,037,200	1320	99.87%
2500 Liters	1,037,200	1800	99.83%
3000 Liters	1,037,200	2160	99.79%
3500 Liters	1,037,200	1440	99.86%
4000 Liters	1,037,200	1548	99.85%
4500 Liters	1,037,200	1060	99.90%
5000 Liters	1,037,200	1800	99.83%
5500 Liters	1,037,200	1988	99.81%
6000 Liters	1,037,200	1092	99.89%
6500 Liters	1,037,200	350	99.97%
7000 Liters	1,037,200	454	99.96%
7500 Liters	1,037,200	1620	99.84%
8000 Liters	1,037,200	1476	99.86%
8500 Liters	1,037,200	688	99.93%
9000 Liters	1,037,200	1258	99.88%
9500 Liters	1,037,200	836	99.92%
10000 Liters	1,037,200	1104	99.89%

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