

# Western Environmental Testing Laboratory

## Analytical Report

AlkaViva LLC  
8745 Technology Way, Suite C  
Reno, NV 89521

Attn: Joe Stumph

Phone: (775) 324-2400 Fax:

PO\Project: Water Filter Media Testing

Date Printed: 10/11/2018

OrderID: 18090616

Customer Sample ID: **Unfiltered Inoculant**

Collect Date/Time: 9/18/2018 09:00

WETLAB Sample ID: 18090616-001

Receive Date: 9/18/2018 09:00

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b><u>Microbiological Analyses</u></b>							
Total Coliform	SM 9223B (IDEXX Colilert)	<b>Present</b>	/100 mL	1		9/18/2018	NV00925
Escherichia Coli	SM 9223B (IDEXX Colilert)	<b>Present</b>	/100 mL	1		9/18/2018	NV00925

Customer Sample ID: **elita Pure Membrane**

Collect Date/Time: 9/18/2018 09:00

WETLAB Sample ID: 18090616-002

Receive Date: 9/18/2018 09:00

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b><u>Microbiological Analyses</u></b>							
Total Coliform	SM 9223B (IDEXX Colilert)	<b>Absent</b>	/100 mL	1		9/18/2018	NV00925
Escherichia Coli	SM 9223B (IDEXX Colilert)	<b>Absent</b>	/100 mL	1		9/18/2018	NV00925

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or <RL

Page 3 of 3

### SPARKS

475 E. Greg Street, Suite 119  
Sparks, Nevada 89431  
tel (775) 355-0202  
fax (775) 355-0817  
EPA LAB ID: NV00925 - ELAP No: 2523

### ELKO

1084 Lamoille Hwy  
Elko, Nevada 89801  
tel (775) 777-9933  
fax (775) 777-9933  
EPA LAB ID: NV00926

### LAS VEGAS

3230 Polaris Ave. Suite 4  
Las Vegas, Nevada 89102  
tel (702) 475-8899  
fax (702) 622-2868  
EPA LAB ID: NV00932

# Western Environmental Testing Laboratory

## Report Comments

---

AlkaViva LLC - 18090616

---

### Specific Report Comments

Sterile dilution water was inoculated with Total Coliform and Escherichia Coli.

The test was performed on the inoculated water directly (unfiltered), then on the inoculated water after passing through the client provided filter inside an AlkaViva elita (filtered).

Bacteria was present in the unfiltered water, but not in the filtered water, indicating the filter removed the bacteria.

### Report Legend

- B – Blank contamination; Analyte detected above the method reporting limit in an associated blank
- D – Due to the sample matrix dilution was required in order to properly detect and report the analyte. The reporting limit has been adjusted accordingly.
- HT – Sample analyzed beyond the accepted holding time
- J – The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- M – The matrix spike/matrix spike duplicate (MS/MSD) values for the analysis of this parameter were outside acceptance criteria due to probable matrix interference. The reported result should be considered an estimate.
- N – There was insufficient sample available to perform a spike and/or duplicate on this analytical batch.
- NC – Not calculated due to matrix interference
- QD – The sample duplicate or matrix spike duplicate analysis demonstrated sample imprecision. The reported result should be considered an estimate.
- QL – The result for the laboratory control sample (LCS) was outside WETLAB acceptance criteria and reanalysis was not possible. The reported data should be considered an estimate.
- S – Surrogate recovery was outside of laboratory acceptance limits due to matrix interference. The associated blank and LCS surrogate recovery was within acceptance limits
- SC – Spike recovery not calculated. Sample concentration >4X the spike amount; therefore, the spike could not be adequately recovered
- U – The analyte was analyzed for, but was not detected above the level of the reported sample reporting/quantitation limit

### General Lab Comments

Per method recommendation (section 4.4), Samples analyzed by methods EPA 300.0 and EPA 300.1 have been filtered prior to analysis.

The following is an interpretation of the results from EPA method 9223B:

A result of zero (0) indicates absence for both coliform and Escherichia coli meaning the water meets the microbiological requirements of the U.S. EPA Safe Drinking Water Act (SDWA). A result of one (1) for either test indicates presence and the water does not meet the SDWA requirements. Waters with positive tests should be disinfected by a certified water treatment operator and retested.

Per federal regulation the holding time for the following parameters in aqueous/water samples is 15 minutes: Residual Chlorine, pH, Dissolved Oxygen, Sulfite.

---

#### **SPARKS**

475 E. Greg Street, Suite 119  
Sparks, Nevada 89431  
tel (775) 355-0202  
fax (775) 355-0817  
EPA LAB ID: NV00925 - ELAP No: 2523

#### **ELKO**

1084 Lamaille Hwy  
Elko, Nevada 89801  
tel (775) 777-9933  
fax (775) 777-9933  
EPA LAB ID: NV00926

#### **LAS VEGAS**

3230 Polaris Ave. Suite 4  
Las Vegas, Nevada 89102  
tel (702) 475-8899  
fax (702) 622-2868  
EPA LAB ID: NV00932