

Filtration Speed Test Summary

Inlet/Outlet Treatment Time Evaluation Results

Conducted By: Pace Analytical Test Report -2515 (2014-01-27)

Testing Protocol: The testing was conducted by an independent third party over 5 days and in accordance with both the Relay user guide and the Brita user guide. Testing was done using 3 Brita 10 cup Grand Pitchers and 3 CamelBak Relay 10 cup pitchers. All tests were conducted at standard room temperature, humidity as well as the filtered water was held constant.

Day 1: The filters were conditioned according to the user guide for both brands

Day 2 –Day 5: The elapsed time was recorded from the initiation of flow from the water source to the completion of treatment. The Brita pitcher was timed from the initiation of the flow of water until the 10 cups of water filled the basin. The Relay filtration pitcher was timed from the point of initiation of water flow until 10 cups of water poured out, because Relay has two filtration steps.

Testing Results:

	<i>TIME (seconds)</i>				
	Day 2	Day 3	Day 4	Day 5	Unit Average
Relay #1	49.5	45.77	46.63	43.76	46.42
Relay #2	47.85	45.51	42.98	45.87	45.55
Relay #3	48.14	49.72	43.75	49.41	47.76
Brita #4	643.81	724.31	1078.14	970.38	854.16
Brita #5	669.37	644.68	904.38	1070.01	822.11
Brita #6	612.85	839.19	949.01	1109.14	877.55

Brita Average: 851.27 seconds
Relay Average: 46.57 seconds

Keep reading for the full testing data report.



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LABORATORY ANALYSIS REPORT

DATE: 2014-01-28
CLIENT: CamelBak Products
2000 South McDowell Blvd., Suite 200
Petaluma, CA 94954

PAGE: 1 of 8
PROJECT: 2515
COLLECTED BY: RM
PROJECT REC'D: 2014-01-16
PROJECT DESC: Filter

CONTACT: Jeremy Galten

*Pace Analytical - Product Testing Division has conducted this Inlet/Outlet Filter Treatment Time Evaluation under specific protocol PDD-73-0350-C.

Pace Analyticals Product Testing Division received 6 Filter (s) for the analysis presented in the following report.

All data reported is associated with quality control that met method, EPA, NSF/ANSI or internal laboratory specification. Any exceptions are noted in a footnote or narrative format.

Pace Analytical Services, Inc. appreciates the opportunity to provide you with this product testing service. We value your feedback, would you please take a few minutes to access our customer satisfaction survey at: <http://www.pacelabs.com/my-account/customer-survey.html> . If you have any questions or comments regarding this report, please feel free to contact us.

Sincerely,

Enclosure

LABORATORY ANALYSIS REPORT

PROJECT: 2515

PAGE: 2 of 8

Speed Filter Test

Sample: 036078		Description: Effluent 1			Volume: 2 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:25.75	**	NA	(None)	2014-01-21	2014-01-21
Flow Rate	0:23.75	**	NA	(None)	2014-01-21	2014-01-21

*CamelBak Pitcher #1

Speed Filter Test

Sample: 036079		Description: Effluent 2			Volume: 2 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:24.24	**	NA	(None)	2014-01-21	2014-01-21
Flow Rate	0:23.61	**	NA	(None)	2014-01-21	2014-01-21

*CamelBak Pitcher #2

Speed Filter Test

Sample: 036080		Description: Effluent 3			Volume: 2 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:25.63	**	NA	(None)	2014-01-21	2014-01-21
Flow Rate	0:22.51	**	NA	(None)	2014-01-21	2014-01-21

*CamelBak Pitcher #3

Speed Filter Test

Sample: 036081		Description: Effluent 4			Volume: 2 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	10:43.81	**	NA	(None)	2014-01-21	2014-01-21

*Brita Pitcher #4



Speed Filter Test

Sample: 036082		Description: Effluent 5			Volume: 2 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	11:09.37	**	NA	(None)	2014-01-21	2014-01-21
*Brita Pitcher #5						

Speed Filter Test

Sample: 036083		Description: Effluent 6			Volume: 2 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	10:12.85	**	NA	(None)	2014-01-21	2014-01-21
*Brita Pitcher #6						

Speed Filter Test

Sample: 036084		Description: Effluent 1			Volume: 3 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:23.12	**	NA	(None)	2014-01-22	2014-01-22
Flow Rate	0:22.65	**	NA	(None)	2014-01-22	2014-01-22
*CamelBak Pitcher #1						

Speed Filter Test

Sample: 036085		Description: Effluent 2			Volume: 3 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:21.35	**	NA	(None)	2014-01-22	2014-01-22
Flow Rate	0:24.16	**	NA	(None)	2014-01-22	2014-01-22
*CamelBak Pitcher #2						

Speed Filter Test

Sample: 036086		Description: Effluent 3			Volume: 3 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:23.50	**	NA	(None)	2014-01-22	2014-01-22
Flow Rate	0:26.22	**	NA	(None)	2014-01-22	2014-01-22

*CamelBak Pitcher #3

Speed Filter Test

Sample: 036087		Description: Effluent 4			Volume: 3 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	12:04.31	**	NA	(None)	2014-01-22	2014-01-22

*Brita Pitcher #4

Speed Filter Test

Sample: 036088		Description: Effluent 5			Volume: 3 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	10:44.68	**	NA	(None)	2014-01-22	2014-01-22

*Brita Pitcher #5

Speed Filter Test

Sample: 036089		Description: Effluent 6			Volume: 3 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	13:59.19	**	NA	(None)	2014-01-22	2014-01-22

*Brita Pitcher #6

Speed Filter Test

Sample: 036090		Description: Effluent 1			Volume: 4 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:23.23	**	NA	(None)	2014-01-23	2014-01-23
Flow Rate	0:23.40	**	NA	(None)	2014-01-23	2014-01-23

*CamelBak Pitcher #1

Speed Filter Test

Sample: 036091		Description: Effluent 2			Volume: 4 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:21.33	**	NA	(None)	2014-01-23	2014-01-23
Flow Rate	0:21.65	**	NA	(None)	2014-01-23	2014-01-23

*CamelBak Pitcher #2

Speed Filter Test

Sample: 036092		Description: Effluent 3			Volume: 4 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:21.50	**	NA	(None)	2014-01-23	2014-01-23
Flow Rate	0:22.25	**	NA	(None)	2014-01-23	2014-01-23

*CamelBak Pitcher #3

Speed Filter Test

Sample: 036093		Description: Effluent 4			Volume: 4 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	17:58.14	**	NA	(None)	2014-01-23	2014-01-23

*Brita Pitcher #4

LABORATORY ANALYSIS REPORT

PROJECT: 2515

PAGE: 6 of 8

Speed Filter Test

Sample: 036094		Description: Effluent 5			Volume: 4 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	15:04.36	**	NA	(None)	2014-01-23	2014-01-23
*Brita Pitcher #5						

Speed Filter Test

Sample: 036095		Description: Effluent 6			Volume: 4 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	15:49.01	**	NA	(None)	2014-01-23	2014-01-23
*Brita Pitcher #6						

Speed Filter Test

Sample: 036096		Description: Effluent 1			Volume: 5 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:21.66	**	NA	(None)	2014-01-24	2014-01-24
Flow Rate	0:22.10	**	NA	(None)	2014-01-24	2014-01-24
*CamelBak Pitcher #1						

Speed Filter Test

Sample: 036097		Description: Effluent 2			Volume: 5 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:22.53	**	NA	(None)	2014-01-24	2014-01-24
Flow Rate	0:23.34	**	NA	(None)	2014-01-24	2014-01-24
*CamelBak Pitcher #2						

Speed Filter Test

Sample: 036098		Description: Effluent 3			Volume: 5 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	0:24.88	**	NA	(None)	2014-01-24	2014-01-24
Flow Rate	0:24.53	**	NA	(None)	2014-01-24	2014-01-24

*CamelBak Pitcher #3

Speed Filter Test

Sample: 036099		Description: Effluent 4			Volume: 5 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	16:10.38	**	NA	(None)	2014-01-24	2014-01-24

*Brita Pitcher #4

Speed Filter Test

Sample: 036100		Description: Effluent 5			Volume: 5 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	17:50.01	**	NA	(None)	2014-01-24	2014-01-24

*Brita Pitcher #5

Speed Filter Test

Sample: 036101		Description: Effluent 6			Volume: 5 Day	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
Flow Rate	18:29.14	**	NA	(None)	2014-01-24	2014-01-24

*Brita Pitcher #6



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PROJECT: 2515

PAGE: 8 of 8

This report has been reviewed for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. These results relate only to the items tested.

****** Units measured in minutes.

NA = Not Applicable

su - Standard Units

UV - Unit Volume

mg/L = milligrams per Liter

ug/L = micrograms per Liter

GPM = Gallons Per Minute

NTU = Nephelometric Turbidity Unit

(wc) = Water Characteristics are for monitoring purposes only, quality control samples may or may not have been performed.

END OF DOCUMENT

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