

Certificate of Analysis List

For request number 963088

Catalog Number Entered	Lot Number Entered	Related Catalog Number	Related Lot Code	Description
2659942	7310	N/A	N/A	StablCal [®] Standard, 10 NTU
2660242	7272	N/A	N/A	StablCal [®] Standard, 100 NTU
2660642	7313	N/A	N/A	StablCal [®] Standard, 1000 NTU
2659742	7291	N/A	N/A	StablCal [®] Solution, <0.1 NTU
2659842	7311	N/A	N/A	StablCal [®] Standard, 1.0 NTU

Total Enclosures: 5

HACH COMPANY



An ISO 9001 Certified Company

P.O.Box 389
Loveland, CO 80539
(970) 669-3050

Certificate of Analysis

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COMMODITY: **StablCal® Standard, 10 NTU**

COMMODITY NUMBER: **2659942**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A7310**

11/8/2017

11/13/2017

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Turbidity	9.5 to 10.5 NTU	10.20 NTU

The expiration date is Oct 2019

Formazin and StablCal® solutions provided by Hach are not NIST traceable because the NIST does not carry turbidity standards. However, the use of Formazin and StablCal® as used in Hach method 8195 are accepted by the EPA as a primary standard to be used in the calibration of turbidity instruments.

Certified by _____

A handwritten signature in cursive script that reads "Scott Als".

Scott Als
Analytical Services Chemist

HACH COMPANY



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Loveland, CO 80539
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COMMODITY: **StablCal® Standard, 100 NTU**

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COMMODITY NUMBER: **2660242**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A7272**

10/3/2017

10/6/2017

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Turbidity	95 to 105 NTU	101.0 NTU

The expiration date is Sep 2019

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Analytical Services Chemist

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Loveland, CO 80539
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COMMODITY: **StablCal® Standard, 1000 NTU**

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COMMODITY NUMBER: **2660642**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A7313**

11/9/2017

11/13/2017

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Turbidity	950 to 1050 NTU	1008.0 NTU

The expiration date is Oct 2019

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Certified by _____

A handwritten signature in cursive script that reads "Scott Als".

Scott Als
Analytical Services Chemist

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Loveland, CO 80539
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COMMODITY: **StablCal® Solution, <0.1 NTU**

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COMMODITY NUMBER: **2659742**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A7291**

10/26/2017

10/26/2017

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Turbidity of diluent	0 to 0.1 NTU	0.07 NTU

The expiration date is Oct 2019

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Loveland, CO 80539
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COMMODITY: **StablCal® Standard, 1.0 NTU**

COMMODITY NUMBER: **2659842**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A7311**

11/10/2017

11/13/2017

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Turbidity	0.95 to 1.05 NTU	1.030 NTU

The expiration date is Oct 2019

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Certified by _____

Scott Als
Analytical Services Chemist

Hach Company
100 Dayton Ave.
Ames, Iowa 50010



Certificate of Analysis

Product : DR/Check Secondary Standards Kit
Product Number: 2763900 Lot Number: A7317 Expiration Date: Nov 2019

Wavelength	Blank A7296	STD 1 (ABS) A7258	STD 2 (ABS) A7258	STD 3 (ABS) A7258
420 nm	0.000	<u>0.696</u> +/- 0.050	<u>1.187</u> +/- 0.100	<u>1.824</u> +/- 0.150
520 nm	0.000	<u>0.628</u> +/- 0.050	<u>1.132</u> +/- 0.100	<u>1.749</u> +/- 0.150
560 nm	0.000	<u>0.637</u> +/- 0.050	<u>1.167</u> +/- 0.100	<u>1.775</u> +/- 0.150
610 nm	0.000	<u>0.618</u> +/- 0.050	<u>1.124</u> +/- 0.100	<u>1.728</u> +/- 0.150

NOTE: Transfer the control values to the enclosed certificate label and keep the label with your instrument for reference. For example, the test values for using a DR890 Colorimeter at 660 nm would be :
0.637, 1.167, and 1.775 Absorbance for Standard 1, Standard 2, and Standard 3 respectively
File this certificate of Analysis for safe keeping. Certified at 25°C

Certified by: *[Signature]* for and on the behalf of Hach Company.
Doc. Cat. No. 2763987