



Calibration Certificate

شركة عبداللطيف حسين أبو الجدائل وأولاده
Abdullatif H. Abuljadayel & Sons Co.



Customer : HSTE	Instrument : DR/900
Location : RIYADH	COLORIMETER
Certificate # : ALAJ/HSTE/DR900/1040/071024	Serial Number : 180220001040
	Date of Cal : OCTOBER 07,2024
	Due of Cal : OCTOBER 07,2025

DR/900 COLORIMETER SERVICE CHECKOUT SHEET

CHARACTERISTICS	STANDARDS	ACTUAL DISPLAY	REMARKS
Visual Inspection	PASS/FAIL	PASSED	CLEANED
Sample Compartment/Cover	PASS/FAIL	PASSED	CLEANED
Software Version	Version 1.070	1.070	OK
Key pad buttons	PASS/FAIL	PASSED	OK
Screen Display	PASS/FAIL	PASSED	OK
Battery	PASS/FAIL	PASSED	OK

CALIBRATION TESTS

STANDARD ACCURACY CHECK

STANDARDS	WAVELENGTH in nm	METHOD / CHEMISTRY	RESULTS
ABSORBANCE STD	420, 520, 560 & 610 nm	ABS / COLOR	PLS FIND ATTACHED

NOTE: The standards used for accuracy check are especially prepared by the manufacturer that verify all the aspect of the system in general, particularly the Absorbance Standards in which covers all the crucial wavelength range of the Instrument. HACH prepared this to minimize users error in preparing calibration accuracy verification standards .

CALIBRATION CERTIFICATE

This is to Certify that the said Instrument has been Tested using and the methodology was determined during accuracy check using Specs Color Std. Kit ; ABS Std. Kit (Cat # 27639-00) and passes the performance test which meets the manufacturing specification and traceable to the National Institute of Standards and Technology(NIST) through comparison to the Certified Value within the designated tolerance.

This Certificate is issued on OCTOBER 07,2024 on behalf of HACH-LANGE Co.(EU-Germany).

Calibration & Certified By :

Biju Sainudheen
Technical Eng'r.

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Certified as ISO 9001:2015

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RIYADH MAINTENANCE



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An ISO 9001:2015 Certified Company



Certificate of Analysis

Product : DR/Check Secondary Standards Kit

Product Number: **2763900** Lot Number: **A3041** Expiration Date: **Feb 2025**

Wavelength	Blank A3038	STD 1 (ABS) A3025	STD 2 (ABS) A3025	STD 3 (ABS) A3025
420 nm	0.000	<u>0.585</u> +/- 0.050	<u>1.217</u> +/- 0.100	<u>1.766</u> +/- 0.150
520 nm	0.000	<u>0.602</u> +/- 0.050	<u>1.222</u> +/- 0.100	<u>1.805</u> +/- 0.150
560 nm	0.000	<u>0.592</u> +/- 0.050	<u>1.246</u> +/- 0.100	<u>1.805</u> +/- 0.150
610 nm	0.000	<u>0.571</u> +/- 0.050	<u>1.194</u> +/- 0.100	<u>1.719</u> +/- 0.150

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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 DR/890 Colorimeter at 560 nm would be :

0.592, 1.246, and 1.805 Absorbance for Standard 1, Standard 2, and Standard 3 respectively

File this certificate of Analysis for safe keeping. Certified at 25°C

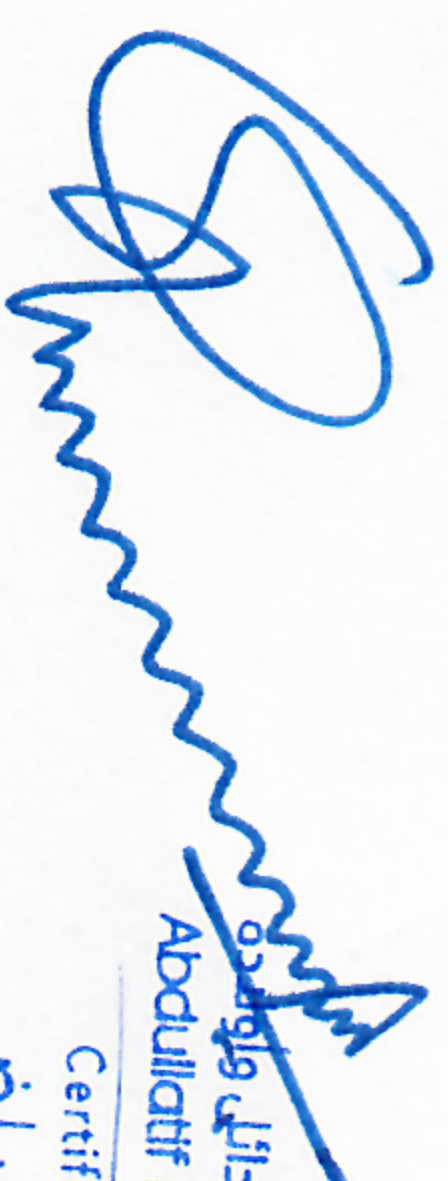
Certified by: *Samir Als* for and on the behalf of Hach Company.

PARAMETER	STD	WAVELENGTH	NOMINAL VALUE	UNIT	TOLERANCE	UNIT	ACTUAL VALUE	UNIT	PASS ?
Single Wavelengthth	STD1	420 nm	0.585	ABS	+/- 0.050	ABS	0.579	ABS	PASS
Single Wavelengthth	STD2	420 nm	1.217	ABS	+/- 0.100	ABS	1.211	ABS	PASS
Single Wavelengthth	STD3	420 nm	1.766	ABS	+/- 0.150	ABS	1.759	ABS	PASS
Single Wavele nghth	STD1	520 nm	0.602	ABS	+/- 0.050	ABS	0.591	ABS	PASS
Single Wavelengthth	STD2	520 nm	1.222	ABS	+/- 0.100	ABS	1.246	ABS	PASS
Single Wavelengthth	STD3	520 nm	1.805	ABS	+/- 0.150	ABS	1.816	ABS	PASS
Single Wavelengthth	STD1	560 nm	0.592	ABS	+/- 0.050	ABS	0.591	ABS	PASS
Single Wavelengthth	STD2	560 nm	1.246	ABS	+/- 0.100	ABS	1.237	ABS	PASS
Single Wavelengthth	STD3	560 nm	1.805	ABS	+/- 0.150	ABS	1.798	ABS	PASS
Single Wavelengthth	STD1	610 nm	0.571	ABS	+/- 0.050	ABS	0.581	ABS	PASS
Single Wavelengthth	STD2	610 nm	1.194	ABS	+/- 0.100	ABS	1.205	ABS	PASS
Single Wavelengthth	STD3	610 nm	1.719	ABS	+/- 0.150	ABS	1.728	ABS	PASS

DR/900 SN # 180220001040

DATE : 07/10/2024

OPERATOR : BIJU


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