



**SMARTCheck
SMART3 COLORIMETER
PERFORMANCE CHECK STANDARDS**

CODE 4148

QUANTITY	CONTENTS	CODE
1	SMARTCheck Blank Standard	4142-E
1	*SMARTCheck 428 Standard	*4148A-E
1	*SMARTCheck 525 Standard	*4148B-E
1	SMARTCheck 568 Standard	4148C-E
1	SMARTCheck 635 Standard	4148D-E
Certificate of Analysis		



These color standards are to be used as colorimeter performance standards and are not to be used as calibration standards. These standards should be used with the Smart3 Colorimeter only.





*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Safety Data Sheet [SDS] for these reagents go to www.lamotte.com. Search for the four digit reagent code number listed on the reagent label, in the contents list or in the test procedures. Omit any letter that follows or precedes the four digit code number. For example, if the code is 4450WT-H, search 4450. To obtain a printed copy, contact LaMotte by email, phone or fax.






Emergency information for all LaMotte reagents is available from Chem-Tel: [US, 1-800-255-3924] [International, call collect, 813-248-0585]




INITIAL DETERMINATION OF STANDARD VALUE





Perform this procedure once, when standards are received. The meter should be in good working order and chamber should be clean and dry. The initial determination of the standard value will be most beneficial when it is performed when the meter is new. If there is any doubt that the meter may have dirt or chemical residue in the chamber, it should be thoroughly cleaned or returned for servicing before this procedure is performed.




1. Press and briefly hold  to turn the meter on. The LaMotte logo screen will appear for about 3 seconds and the Main Menu will appear.	Main Menu	
	Testing Menu	
	Editing Menu	
	Run PC Link	
	12:00:00	001/500 

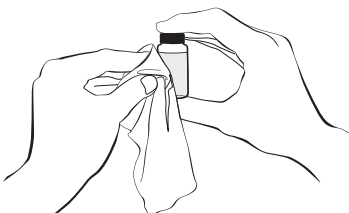
2. Press  to select Testing Menu .	Testing Menu	
	All Test Menu	
	Sequence 1	
	Sequence 2	
	Sequence 3	
	12:00:00	001/500 




3. Press  or  to scroll to Absorbance .	Testing Menu	
	Sequence 1	
	Sequence 2	
	Sequence 3	
	Absorbance	
	12:00:00	001/500 

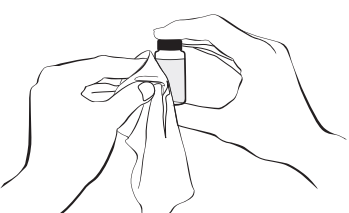
4. Press  to select Absorbance .	Absorbance	
	101 Absorbance 428	
	102 Absorbance 525	
	103 Absorbance 568	
	104 Absorbance 635	
	12:00:00	001/500 

5. Press  or  to scroll to desired wavelength.	Absorbance	
	101 Absorbance 428	
	102 Absorbance 525	
	103 Absorbance 568	
	104 Absorbance 635	
12:00:00	001/500	

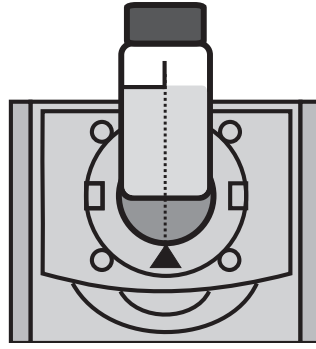
6. Press  to select the wavelength.	102 Absorbance 525	
	Scan Blank	
	Scan Sample	
12:00:00	001/500	

7. Wipe the SMARTCheck Blank Standard with a clean, lint-free cloth.	
--	---

8. Insert the blank. Close the lid. Press  to scan the blank. The screen will display Blank Done for about 1 second and return to the Absorbance menu.	102 Absorbance 525	
	Scan Blank	
	Scan Sample	
12:00:00	001/500	

9. Wipe the SMARTCheck Wavelength Standard for the appropriate wavelength with a clean, lint-free cloth.	
--	---

10. Insert the SMARTCheck Wavelength Standard. Align the index arrow on the tube with the arrow on the chamber. Press **ENTER** to scan the sample. The absorbance will be displayed. The reading should be within the tolerance limits shown on the Certificate of Analysis.





11. Record the actual reading on the SMARTCheck Wavelength Standard cap and on the Data Sheet.








12. Press **EXIT** to return to the Absorbance mode. Repeat steps 5-10 for the remaining wavelengths.



INSTRUMENT PERFORMANCE CHECK




Perform this procedure at specified intervals to verify instrument performance.


1. Press and briefly hold  to turn the meter on. The LaMotte logo screen will appear for about 3 seconds and the Main Menu will appear.	Main Menu
	Testing Menu Editing Menu Run PC Link
	12:00:00 001/500 

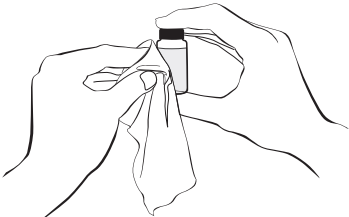
2. Press  to select Testing Menu .	Testing Menu
	All Test Menu Sequence 1 Sequence 2 Sequence 3
	12:00:00 001/500 


3. Press  or  to scroll to Absorbance .	Testing Menu
	Sequence 1 Sequence 2 Sequence 3 Absorbance
	12:00:00 001/500 

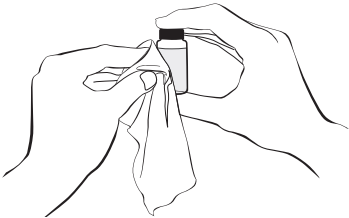
4. Press  to select Absorbance .	Absorbance
	101 Absorbance 428 102 Absorbance 525 103 Absorbance 568 104 Absorbance 635
	12:00:00 001/500 

5. Press  or  to scroll to desired wavelength.	Absorbance
	101 Absorbance 428 102 Absorbance 525 103 Absorbance 568 104 Absorbance 635
	12:00:00 001/500 

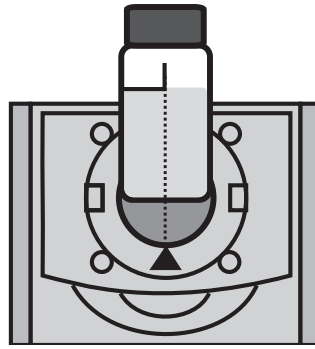
6. Press ENTER to select the wavelength.	102 Absorbance 525
	Scan Blank Scan Sample 12:00:00 001/500 

7. Wipe the SMARTCheck Blank Standard with a clean, lint-free cloth.	
--	---

8. Insert the blank. Close the lid. Press ENTER to scan the blank. The screen will display Blank Done for about 1 second and return to the Absorbance menu.	102 Absorbance 525
	Scan Blank Scan Sample 12:00:00 001/500 

9. Wipe the SMARTCheck Wavelength Standard for the appropriate wavelength with a clean, lint-free cloth.	
--	--

10. Insert the SMARTCheck Wavelength Standard. Align the index arrow on the tube with the arrow on the chamber. Press **ENTER** to scan the sample. The absorbance will be displayed. The reading should be within the tolerance limits shown on the Certificate of Analysis.



11. Repeat steps 5-10 for the remaining wavelengths.

12. If the readings are not within the tolerance limits, contact Tech Service at LaMotte Company. The standards may no longer be valid and should be replaced or the meter may have to be returned for servicing.

NOTE: Store standards in a cool place out of direct light. Exposure to excessive heat or light may cause degradation of the standards.

DATA SHEET

Meter Serial Number: _____
Kit Lot Number: _____
Expiration Date: _____

Wavelength Standard	Acceptable Colorimeter Range	SMART3 Reading
SMARTCheck Blank Standard	_____	_____
SMARTCheck 428 Standard	_____	_____
SMARTCheck 525 Standard	_____	_____
SMARTCheck 568 Standard	_____	_____
SMARTCheck 635 Standard	_____	_____

For a list of SMART3 test factors and corresponding wavelengths see the SMART3 Colorimeter Reagent Systems list in the SMART3 manual, the LaMotte web site at www.lamotte.com or call LaMotte Tech Service.

NOTE: The Acceptable Colorimeter Range values should match those on the Certificate of Traceability. If they do not match, use the values on the Certificate of Traceability.

LaMOTTE COMPANY

Helping People Solve Analytical Challenges

802 Washington Ave · Chestertown · Maryland · 21620 · USA
800-344-3100 · 410-778-3100 (Outside U.S.A.) · Fax 410-778-6394

Visit us on the web at www.lamotte.com