



Yalitech Instruments

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DROP COUNT, 1 DROP = 1 ppm

CODE 4507-02

QUANTITY	CONTENTS	CODE
2 x 30 mL	*DS Indicator Reagent	*4508-G
15 mL	DS Reference Solution	4513-E
50 g	pH Adjustment Powder	4509-H
1	Test Tube, Test Sample w/cap	0282
1	Test Tube, Reference Sample w/cap	0283
1	Test Tube, 1-8 mL, plastic, w/cap	0755
1	Pipet, glass	0347
1	Spoon, 0.25 g, plastic	0695

***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)

To order individual reagents or test kit components, use the specified code number.

Warning! This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

PROCEDURE

STEP I - Determine if Detergent is Present

1. Use the calibrated test tube (0755) to measure 5 mL of the sample solution. Add to the screw cap tube marked Test Sample (0282).
2. Use the 0.25 g spoon (0695) to add one measure of pH Adjustment Powder (4509). Shake until dissolved.
3. Fill the pipet (0347) with *DS Indicator Reagent (4508) by squeezing the rubber bulb, then inserting pipet into reagent. Add this amount of *DS Indicator Reagent to the Test Sample tube. Cap and shake for one minute.

- Allow the tube to stand until the two layers of the solution separate. The water layer will settle to the bottom and the reagent layer will rise to the top. Use chart below to determine if detergent is present.

Bottom Layer	Top Layer	Quick Reading
Colorless	Colored	No Detergent in sample
Some Color	Some Color	Some Detergent in sample
Colored	Colorless	High Detergent in sample

NOTE: If the amount of detergent in the sample is to be determined, save this Test Sample and proceed to Step 2.

STEP 2 - Determine the Amount of Detergent Present

- Use the calibrated test tube (0755) to measure 5 mL of detergent-free water. Add to the screw cap tube marked Reference Sample (0283). (On field trips it may be necessary to carry a small supply of detergent free water.)
- Use the 0.25 g spoon (0698) to add one measure of pH Adjustment Powder (4509). Shake until dissolved.
- Fill the pipet (0347) with *DS Indicator Reagent (4508) by squeezing the rubber bulb, then inserting pipet into reagent. Add this amount of *DS Indicator Reagent to the Reference Sample tube.
- Add one drop of DS Reference Solution (4513). Cap and shake for one minute.
- Allow the tube to stand until the two layers of solution separate. The color produced in the bottom (water) layer is equivalent to 1 ppm of detergent.
- Compare the color in the bottom layer of the Test Sample Tube from Part I to the color of the bottom of the Reference Sample Tube.

If Test Sample Color Is:	Test Sample Contains:
Lighter than Reference	Less than 1.0 ppm Detergent
Same as Reference	1.0 ppm Detergent
Darker than Reference	More than 1.0 ppm Detergent

- Add one drop of DS Reference Solution (4513) to the Reference Sample Tube. Shake to mix. Compare the color as before. The color in the Reference Sample is now equal to 2.0 ppm. Continue this procedure, counting the number of drops of DS Reference Solution (4513) added, until the color of the bottom layer in each tube is the same. Each drop of the DS Reference Solution (4513) added to the Reference Sample Tube is equal to 1 ppm detergent in the sample.

NOTE: If at any time the top layer of the Test Sample or Reference Sample becomes colorless, add more DS Indicator Reagent (4508). The amount of this reagent added is not important as long as there is some color in the top layer.

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