

TRU TEMP®2nd GEN or XL

Drop Count Titration Test Procedure





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STEP 1. Transfer 1.0 mL of **TRU TEMP® 2ND GEN or XL** bath into a 50 mL Erlenmeyer Flask using 2.5ml syringe. Add 15-30mL deionized water into the flask to make it easier to swirl. Rinse syringe after use.

STEP 2. Add 5-10 drops of phenolphthalein solution (**TRU TEMP INDICATOR**). Swirl the flask to mix. The solution will turn bright pink.

STEP 3. Using the pipette, add 3.0 N HCl (**TRU TEMP TEST SOLUTION**) dropwise with constant swirling. Count the number of drops until the solution turns clear. A 50% Tru Temp bath will use about 29 drops.

STEP 4. Calculate the bath concentration using the following equation:

% $TruTemp \otimes 2^{nd}$ gen = # drops added x 1.72

STEP 5. Make chemical additions if needed. This chart shows additions for 50% target concentration. Keep a record of your bath concentration and actions completed in your logbook.

Bath Concentration	40-gallon bath	100-gallon of bath
50% and above	None Required	None Required
49-39%	2.5 gallons of Tru Temp®	6 gal of Tru Temp® 2nd
	2nd Gen	Gen
38-28%	7 gallons of Tru Temp® 2nd	17 gal of Tru Temp® 2nd
	Gen	Gen
Less than 28%	14.5 gallons of Tru Temp®	36 gal of Tru Temp® 2nd
	2nd Gen	Gen

The GO NO GO Procedure for Tru Temp baths can be found at https://birchwoodtechnologies.com/resources/sds-instruction-sheets/

Birchwood Technologies® offers **FREE** bath analysis service to all customers. If you would like us to assist in this way, just send us a 4 oz. sample of the bath. We'll analyze and report the results.



OXYPRIME[®] XPL Drop Count Titration Test Procedure





STEP 1. Using the syringe, transfer 2 mL of **OXYPRIME**[®]**XPL** bath into a 50 mL Erlenmeyer flask. Add 10-15 ml deionized water into the flask to make it easier to swirl.

STEP 2. Add 5-10 drops of **bromocresol green-methyl red solution** (OXYPRIME INDICATOR). Swirl the flask to mix. The solution will turn orange.

STEP 3. Using the pipette, add **1.0 N NaOH** (OXYPRIME TEST SOLUTION) dropwise with constant swirling. Count the number of drops until the solution turns blue. A 10% Oxyprime bath will use about 22 drops.

STEP 4. Record the number of drops and calculate concentration using the following equation:

% Oxyprime XPL = # drops added x 0.45

STEP 5. Make chemical additions if needed. This chart shows additions for 10% target concentration. Keep a Record of your concentrations and actions required in your logbook.

Bath Concentration	40-gallon bath	100-gallon of bath
10% and above	None Required	None Required
9-7%	1 gallons of OXYPRIME ®	2 gal of OXYPRIME® XPL
	XPL	
6-4%	2 gallons of OXYPRIME®	5 gal of OXYPRIME® XPL
	XPL	
Less 4%	3 gallons of OXYPRIME®	8 gal of OXYPRIME® XPL
	XPL	-

The GO NO GO Procedure for all Oxyprime® products can be found at https://birchwoodtechnologies.com/resources/sds-instruction-sheets/

Birchwood Technologies® offers **FREE** bath analysis service to all customers. If you would like us to assist in this way, just send us a 4 oz. sample of the bath. We'll analyze and report the results.