

CLEAN WATER. NATURALLY.

HaloKlear.  
NATURAL FLOCCULANTS

# JAR TEST INSTRUCTIONS

Reliable and effective control in TSS and turbidity  
Stormwater and Construction Applications

## JAR TEST TO DETERMINE:

1. Product Selection
2. Dose Rate
3. Injection Rate

## VALIDATE RESULTS ON THE SPOT!

With HaloKlear's Residual Test Kit, you can prove, onsite, that no residual chemistry is being released back into the environment. View results in 10 minutes or less, at a cost of only a few dollars per test!



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HaloKlear is a registered trademark of Dober Chemical Corporation.

For additional information contact us at: 800.323.4983  
[info@dober.com](mailto:info@dober.com) • [www.dober.com](http://www.dober.com)

HaloKlear's portfolio consists of 100% biodegradable chitosan-based, natural flocculants as well as iron-and sulfate-free hybrid flocculants. HaloKlear technologies address a wide variety of pollutants and contaminant types, including total suspended solids, algae, hydrocarbons, heavy metals, oils and organic compounds.

DOBER

DOBER

## HALOKLEAR JAR TEST INSTRUCTIONS:

### Materials Needed:

- Several 500mL clear bottles
- 1 mL pipette
- HaloKlear LiquiFloc 1%, LBP-2101, 05 and BHR-P50
- 1 gallon of representative water sample to be treated

## JAR TEST METHOD FOR SINGLE FLOCCULANT:

- 1: Fill 500 mL bottle with source sample water for testing.
- 2: Add 1 drop of chemical.
- 3: Shake sample, then let stand for several minutes.
- 4: Repeat steps 2 through 3 as needed until flocculation occurs and desired results are achieved. Count the number of drops used.

## JAR TEST METHOD FOR DUAL PRODUCT SYSTEM:

### PART 1:

- 1: Fill 500 mL bottle with source sample water for testing.
- 2: Add 1 drop of HaloKlear LBP-2101.
- 3: Shake sample vigorously.
- 4: Add 1 drop of HaloKlear LiquiFloc 1%.
- 5: Shake sample vigorously, then let stand for several minutes.
- 6: Repeat steps 2 through 5 as needed until flocculation occurs and desired results are achieved.

### PART 2:

- 1: Fill 500 mL bottle with source sample water for testing.
- 2: Add the total number of drops of LBP-2101 all at once and shake well.
- 3: Add 1 drop of HaloKlear LiquiFloc 1%.
- 4: Shake sample vigorously and let stand for several minutes.
- 5: Repeat steps 3-4 as needed until flocculation occurs and desired results are reached.

## DETERMINE THE INJECTION RATE:

- 1: Locate the water flow rate in the left hand column.
- 2: Locate the dose in the top row from the Jar Test.
- 3: Determine the rate in gallons per hour (gph).

## FLOCCULANT INJECTION RATE

Water Flow Rate	Active Flocculant Dose				
	100 ppm	200 ppm	300 ppm	400 ppm	500 ppm
100 gpm	0.6 gph	1.2 gph	1.8 gph	2.4 gph	3 gph
200 gpm	1.2 gph	2.4 gph	3.6 gph	4.8 gph	6 gph
300 gpm	1.8 gph	3.6 gph	5.4 gph	7.2 gph	9 gph
400 gpm	2.4 gph	4.8 gph	7.2 gph	9.6 gph	12 gph
500 gpm	3.0 gph	6.0 gph	9.0 gph	12.0 gph	15 gph
600 gpm	3.6 gph	7.2 gph	10.8 gph	14.4 gph	18 gph
700 gpm	4.2 gph	8.4 gph	12.6 gph	16.8 gph	21 gph
800 gpm	4.8 gph	9.6 gph	14.4 gph	19.2 gph	24 gph
900 gpm	5.4 gph	10.8 gph	16.2 gph	21.6 gph	27 gph
1000 gpm	6.0 gph	12.0 gph	18.0 gph	24.0 gph	30 gph

**NOTE:** In 500 mL of water sample, each drop of HaloKlear LBP-2101 is equal to 100 ppm of product. Each drop of HaloKlear LiquiFloc 1% is equal to 100 ppm product.

If you have any questions, please contact HaloKlear at (800) 323-4983 or email [info@dober.com](mailto:info@dober.com).