While using the BOD Analyst Pro® desktop software for the calculations of BODs, you may encounter a situation where none of the seed samples meet the established criteria of Take 2 Leave 1.

Option 1
Scenario = No seed samples meet previously established Take 2 Leave 1 criteria and it is checked as “on”. Samples are reported using default values with an indication that values are not “true” by using a less than sign “<” in the BOD result.

If the Take 2 Leave 1 rule is checked as “on” in the criteria set up as shown in Figure 1, and none of the seed samples meet the rule, the software will default to either a value of “2” for the depletion or “1” for the final value in order to complete the calculations. The 2 mg/L default depletion value (Figure 2) will be used in all BOD final calculations and display a value with a less than “<” sign to indicate the value is not a true value (Figure 2).

Option 2
Scenario = No seed samples meet previously established Take 2 Leave 1 criteria and it is checked as “on”. It is then unchecked after the batch is completed in order to highlight seed samples as not meeting criteria and not use the default values of “2” or “1” to run the calculations.

In this scenario, the Take 2 Leave 1 rule is unchecked as “off” (Figure 3) in the criteria screen after realizing none of the seed samples meet the criteria. This would be done in order to highlight the seed samples to indicate they did not meet the criteria. Shown in Figure 4 as green horizontal highlights.

This would allow a lab to report the batch as an AE (analytical error). Correct seed depletion values would be visible on the seed samples but no seed corrections would be applied to any sample that the seed was added to.

Option 3
Scenario = No seed samples meet previously established Take 2 Leave 1 criteria and it is checked as “on”. It is then unchecked after the batch is completed in order to highlight seed samples as not meeting criteria and not use the default values of “2” or “1” to run the calculations.

Those highlighted seed samples are then manually unmarked in order to get actual depletion values and those values are used as seed correction in all samples with the seed added.

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In this scenario, the same initial steps occur as in Option 2 but one more step is undertaken in order to get true values regardless of the Take 2 Leave 1 rule.

Once the samples are highlighted, they can be manually unmarked using the functional icon showing the pencil eraser to allow the program to continue calculating values from the oxygen depletion that is less than 2 as shown in Figure 5.

On the printed Bench Sheet, it will show that these samples have been manually unmarked with a “UM” in the notes column. This option allows values to be reported based on true values regardless of previously established Take 2 Leave 1 criteria.

**Important Note**

BOD Analyst Pro software is a database-based program. Therefore, by checking and unchecking the Take 2 Leave 1 rule it will in turn affect any old batches you open to view. In essence, if the rule is checked as “on” when you run your batches and you uncheck it as “off” at any point and you open an older completed batch, it will look at the criteria at the time it is opened. Essentially, it will open that older batch with the Take 2 Leave 1 as unchecked or “off” when it was originally checked as “on” when the batch was run.

We recommend you always print your bench sheets to keep a hard copy of your batches.

In addition, it is recommended that you print screen shots of your established criteria in case there are multiple users. This way, you can always use your printed documentation to review your criteria settings.

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