How To Use The Go/No-Go Kit

Included in this kit will come:
(10) Go/No-Go vials
(1) 1 milliliter syringe

For easy use:
-Simply take a 1 ml sample of the feedstock in question.
-Add this to one of the pre-measured Go/No-Go vials.
-Shake vigorously for 10 seconds.

If the sample stays purple, it is a Go. Make sure that the oil is free of water and particulates, and it will process well in your machine. (This test only measures FFA levels in the feedstock. Please refer to the section in your owners manual entitled "Feedstock" for further information.)

If the sample turns yellow, it is a No-Go, the FFA (free fatty acid) level is so high that it is not recommended for processing in a BioPro Automated Processor.

Theory behind the test:
Each vial is set to change color if the sample of feedstock is 5% FFA or greater. If you want to tell more precisely how acidic the sample of feedstock was, simply see how much of it is needed to turn the fluid yellow. For example, if it takes 2 ml of oil to turn the fluid in the vial yellow, then the sample of oil is only 2.5% FFA. If it only takes ½ of a milliliter of oil to turn the fluid yellow, the there is 10% FFA in the oil. Please take note of the accompanying chart in your BioPro owners manual on page 25 to see the ramifications that this has for biodiesel processing. Many customers are able to use this information to dilute high FFA oil from one source with low FFA oil from another source. This allows them to process all of the potential feedstock they are able to find.

For those with experience at waste oil titrations:
To use the BioPro in automatic setting, it is recommended that oil should be no more than 5% FFA.

Percent FFA was used in this test instead of titration number due to the fact that it is an unambiguous measurement. (Titration methods can vary.) Using the Titrating Oil method described at Utah Biodiesel Supply (http://www.utahbiodieselsupply.com), you can identify an oil's FFA%.

To go from %FFA to titration number a person would use the reverse formula:
(%FFA×1.3) for NaOH and (%FFA×1.8) for KOH

If using an NaOH based titration solution, divide the titration amount by 1.3. If using KOH for the titration solution, divide the titration amount by 1.8. This will give the approximate percent FFA in the feedstock.

This equates to a titration number of 9 using KOH based titration solution or 6.5 if using an NaOH based titration solution.

Please note that on some very rare occasions, the oil is contaminated with an acid of a mineral origin such as hydrochloric acid which is used as a cleaner. In such circumstances a sample could pass the Go/No-Go test but not be able to be processed.

Best if used within 90 days of purchase
Store in a cool dry place away from direct sunlight