

MLF Refill Kit Information:

Thank you for your purchase of the MLF Refill Kit. In an effort to eliminate unnecessary waste, we provide reaction vials and septum caps that are reusable. The refill kit now includes replacement septa for these caps. The septum caps are reusable up to six (6) punctures, i.e., you may use the septum cap for up to three (3) different tests (2 punctures per test). After that we strongly recommend that you replace the septum in the cap (see below). Additional reaction vials, septa and septum caps are also sold separately.

Changes in the procedure

The SC-50 testing procedure has been slightly modified to help improve your results. The Refill Kit contains: Three Malic Acid Standards (0.1g/L, 0.4g/L, and 0.00g/L), a vial of Biopressure Agent, 1M Malic Acid, and replacement septa (and an extra plastic scoop, if ordered at checkout). **The Boost Juice is no longer included as a reagent for the SC-50 testing procedures.** Instead, consult the latest version of the manual for the instructions on how to prepare your wine sample. Briefly, after the heating and reconstitution step, as you have done in the past, you now need to make a 1:1 dilution using the 0.00g/L standard. Additional 0.00g/L standard is now included for this purpose. Available in a 10 or 20 test kit.

The refill kits now contain a 0.00 g/L Malic Acid Standard that **must** be run in each Quantify Mode procedure. The procedure has been updated and the most current version of the manual can be viewed on our website (www.vinmetrica.com/support). You can also request a copy be emailed to you, simply send us an email to info@vinmetrica.com. It is very important for you to review the changes in the procedure before beginning your tests.

Filling reaction vials before beginning the MLF analysis.

- a. Remove Biopressure Agent from freezer and allow to come to room temperature.
- b. Using the small plastic spoon (PN: RS-12), measure out two (2) level scoops (approx. 40 mg) of Biopressure Agent into each reaction vial.
 - due to the tendency of the Biopressure Agent to pick up moisture, you may want to rinse and completely dry the plastic spoon after filling approximately 5 vials.
- c. Cap all reaction vials.
- d. Keep out all reaction vials needed for MLF assay.
 - For Quick Check Mode, you will need one (1) reaction vial per wine sample.
 - For Quantify Mode you will need at least three (3) reaction vials, one (1) for the Malic Acid Standard, one (1) for the Zero Response and one (1) per wine sample. (See Concentration Calculation, pg 8 of the manual, for further information).
- e. Place all remaining reaction vials in freezer until use.
- f. Thoroughly rinse plastic measuring spoon with DI water.

To replace a septum, push the old septum out of the cap and discard.

- g. Insert the new septum with the white side facing the cap's hole. Be sure to seat the septum as evenly as possible using a pencil eraser or something similar.
- h. To ensure proper seating, tighten the cap onto a vial, loosen, and tighten again. Remove and inspect the cap to be sure the septum is evenly seated all the way.