



Smoke Taint Sample Testing

CDFA and UC Davis have partnered to offer smoke taint analytical services for winegrape growers. CDFA will analyze grapes only. CDFA's analytical method has been validated and is accurate. However, the method has not been ISO 17025 accredited. Please verify this is acceptable with your insurance provider and/or legal counsel before submitting samples. The method will measure seven smoke-related compounds (guaiacol, 4-methylguaiacol, o-cresol, p-cresol, m-cresol, syringol, and 4-methylsyringol). Please note: the method used does NOT measure bound (non-volatile) phenols that can later hydrolyze to their volatile form. These samples should be submitted to ETS lab or other providers for HPLC-MS analysis.

1. Please note only grapes may be submitted to CDFA for smoke taint testing.
2. Freeze your sample over night then place in a plastic bag and seal/secure the bag. If you are submitting multiple samples, each one needs to be in its own bag. NOTE: A minimum of ~200 berries per sample is required. Please do not submit more than 1 lb of berries per sample. UC Davis has a grape sampling protocol if you need information on sampling [UC DAVIS PROTOCOL](#)
3. Fill out the Sample Analysis Form [HERE](#) legibly, either type in or hand write.
 - a. In section A, enter your sample ID which is your sample identifying number, code, or name. Each sample submitted must have a unique sample ID.
 - b. Fill in section B completely and provide a valid, legible email address as results are only provided via email
 - c. Fill in and sign the first line of section C
 - d. All other information will be completed by laboratory staff
4. Clearly indicate your sample ID on the bag and on the report form. If submitting multiple samples, each sample must have its own report form.
5. Payments are made by credit card through the UC Davis website. Within a few days of submitting your sample to CDFA, you will receive an email from anlab-notify@ucdavis.edu with instructions on how to remit payment of \$246 per sample. Payments must be received before sample results are released.
6. Place the Sample Analysis Form(s) in a plastic bag (use a separate bag from your sample).
7. Samples may be submitted by mail or in person. If you are shipping your sample(s), place in an insulated container with dry ice or heavy duty gel packs and ship overnight to:

California Department of Food and Agriculture
Center for Analytical Chemistry
3292 Meadowview Road
Sacramento, CA 95832
ATTN: SMOKE TAIN
8. If you are submitting samples in person, deliver frozen grapes to:

California Department of Food and Agriculture
Center for Analytical Chemistry
3292 Meadowview Road
Sacramento, CA 95832
The laboratory's receiving area is in the south end of the second building in the complex. Receiving hours are 8:00am to 4:00pm Monday – Friday except State holidays.
9. Results will be emailed to the address provided on the report form.
10. Email CDFA.CAC_receiving@cdfa.ca.gov or call 916-228-6844 with sample submission questions.

