



# ETS

## Environmental Technical Services

- Soil, Water & Air Testing & Monitoring
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so that both benefit.**

## OLIVE OIL FFA, PV & UV REPORT

**To:** Asti Benoit  
 Delphi Fruits Inc.  
 4061 E. Castro Valley Blvd., #500  
 Castro Valley, CA 94552

**Date:** January 5, 2010  
**Lab #:** 03820-24  
**Received:** December 16, 2009  
**Tech(s):** S. Santos  
**Lab Supervisor:** D. Jacobson  
**Lab Director:** G.S. Conrad, Ph.D.  
**Sample ID(s):** WFOO1/CV  
**Expiration Date:** 2-11

**Brand:** Western Family Olive Oil  
**Source/Origin:** Import, Spain  
**Lot No:** 09Y350051

**Site Location:** from operations at address as listed above.

### RESULTS

SAMPLE ID	Titratable Acidity	Peroxide Value	UV Absorbency	COOC			IOOC		
				FFA	PV	UV	FFA	PV	UV
WFOO1/CV	0.45%	2.50 meq/kg	0.23	√	√	√	√	√	√

√ means the sample passed (no check means it failed)

### COMMENTS

The acidity (as free fatty acids) of the submitted olive oil sample was titrated at under 0.5% which is under the established 0.5% limit for California. In addition, PV (peroxide value) also measures well below its limit of 20 meq/kg, meaning that this parameter also satisfies its requirement. Last, the UV Absorbency is under the established limit of 0.25 Absorbance Units, thus this parameter is acceptable as well. Therefore, all three parameters satisfy the requirement for an extra virgin rating. However, keep in mind that other parameters are also important in rating olive oils, not the least of which are organoleptic test results.

#### TEST NOTES:

Methods according to Official Methods of Analysis, 15th ed., © 1990 by the Association of Official Analytical Chemists: 940.28 - dissolution in ethanol and titration of acidity by 0.1N NaOH (sodium hydroxide) and reported as oleic acid equivalent; and 965.33 - titrated in KI with sodium thiosulfate.