



# ETS

## Environmental Technical Services

- Soil, Water & Air Testing & Monitoring
- Analytical Labs
- Technical Support

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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 #:** 03820-14  
**Received:** December 16, 2009  
**Tech(s):** S. Santos  
**Lab Supervisor:** D. Jacobson  
**Lab Director:** G.S. Conrad, Ph.D.  
**Sample ID(s):** LVO01/CV  
**Expiration Date:** (none)

**Brand:** Lykovouno Olive Oil  
**Source/Origin:** Import, Greece  
**Lot No:** (none)

**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
LVO01/CV	0.55%	14.50 meq/kg	0.30		√		√	√	

√ 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 just over 0.5% which is over the established 0.5% limit for California. In contrast, PV (peroxide value) does measure somewhat below its limit of 20 meq/kg, meaning that this parameter does satisfy its requirement. However, the UV Absorbency is over the established limit of 0.25 Absorbance Units, thus this parameter is unacceptable. Therefore, only one of the three parameters satisfies its requirement for an extra virgin rating. In addition, 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.