

# Test Report

# Agricola dell'Orso

**Customer:** Società Agricola dell'Orso  
 Ch du Corgeon 14  
 CH-1095 Lutry

**Order-Number:** A2-2016

**Lot-Number:** 11GUI2021

**Date of evaluation:** 09.07.2020

**Location:** Sensory lab ZHAW

**Panel:** Swiss Olive Oil Panel (SOP)

**Sample-Code:** 343

## Classification / Paneltest

according to EC 2568/91  
 (as amended)

### Extra Virgin

Median of defects = 0  
 Median of fruity > 0

		<u>Median</u>
<b>Fruity</b>	not detectable (0) - intense (10)	4.6
<b>Bitter</b>	not detectable (0) - intense (10)	1.8
<b>Pungent</b>	not detectable (0) - intense (10)	1.9
<b>Defects</b>		0.0
<b>Category</b>	delicate - medium - robust (< 3 - 6 - 10)	medium
<b>Characterisation of fruitiness</b>		green and ripe

## Aroma Description and Evaluation of Harmony

according to self-validated method

### Harmony & Persistency

defective / unharmonious (0) - average (5) - complex / harmonious (10)

Mean

5.9

### Sweet

not detectable (0) - slight (1) - intense (5)

Median

1.0


### Aroma

not detectable (0) - slight (1) - intense (5)

	<u>Proportion (%)</u>	<u>Nominations</u>	<u>Description</u>
Freshly cut grass	10%		medium
Plant-like / leaves	40%		medium
Tomatoes	30%		medium
Artichoke	20%		medium
Herbs (oregano, thyme, rosemary,...)	40%		medium
Vegetables (cabbage, spinach, beans,...)	10%		slight
Nuts	50%		medium
Apple	10%		medium
Tropical fruit (banana, pineapple, figs,...)	40%		medium
Berries (strawberry, black currant,...)			
Citrus	10%		medium
Tea (black)			
Floral / Honey			
Spices (vanilla, cinnamon)			

This test report refers solely to the sample / lot tested, and may not be published and/or reproduced, in whole or in part, without the written approval of the test laboratory.

**Town:** Waedenswil / Switzerland  
**Date:** 2020-07-13

**Panel Leader:** 





## Explanations concerning the test report:

The Swiss Olive Oil Panel (SOP) is accredited according to ISO 17025 and recognized by the IOC (International Olive Council). The SOP regularly trains their panelists. They are additionally part of a monitoring system which ensures the validity and quality of results.

The explanations below will help you to understand the test report. The results are split in two parts - first, the results from the paneltest according to EC 2568/91 (as amended) are shown and following, the results from the aroma description and the harmony evaluation, which both refer to a self-validated method, are shown

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## Classification / Paneltest

according to EC 2568/91 (as amended)

For the evaluation of the defined sensory criteria continuous scales of 10 cm in length are used. In particular the smell (ortho- and retronasal) as well as the taste of the oils are in the focus. The robust standard deviation (CVr) of the panel for each criterion should not exceed 20%.

<b>Classification</b>	extra virgin virgin lampant	Median of defects < 0 and median of fruity > 0 Median of defects $0 \leq 3.5$ and median of fruity > 0 Median of defects > 3.5 or Median of defects $0 \leq 3.5$ and median of fruity = 0
<b>Fruity</b>	<i>Olfactory sensation, that depends on olive variety and comes from sound, fresh olives, either ripe or unripe</i> delicate medium robust  fruitiness green fruitiness ripe fruitiness	Median of fruitiness $\leq 3.0$ Median of fruitiness between 3.0 and 6.0 Median of fruitiness > 6.0  Neither green nor ripe fruitiness predominates Oils from green, sound, fresh olives --> reminiscent of green fruit Oils from sound, fresh olives --> reminiscent of ripe fruit
<b>Bitter</b>	<i>Primary taste, characteristic for oils that come from green olives or olives turning colour.</i> delicate medium robust	Median $\leq 3.0$ Median between 3.0 and 6.0 Median > 6.0
<b>Pungent</b>	<i>Biting tactile sensation, characteristic for oils come from olives harvested early/produced from unripe olives</i> delicate medium robust	Median $\leq 3.0$ Median between 3.0 and 6.0 Median > 6.0
<b>Balanced olive oil</b>		Medians "bitter" and/or "pungent" not more than 2 points > median "fruity"
<b>Mild olive oil</b>		Medians "bitter" and "pungent" $\leq 2.0$

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## Aroma Description and Evaluation of Harmony

according to self-validated method

The aroma description and the evaluation of harmony of virgin olive oils is based on a self-validated test method. This method was developed in collaboration between the German Olive Oil Panel (DOP) and the Swiss Olive Oil Panel (SOP). First, individual attributes that characterize the fruitiness of the oil are identified and following, their Intensity is estimated. In particular, the variety (complexity) but also the purity and persistency of the components plays an important role. Finally, the extent of the harmonic interaction between all positive characteristics, that is the aroma (fruitiness), bitterness and pungency, as well as the persistency, an overall picture - the value for harmony and persistency.

### Recommended literature:

1. Bongartz A., Oberg D.: Sensory Evaluation of Extra Virgin Olive Oil (EVOO) Extended to Include the Quality Factor "Harmony", JAST, 2011
2. Bongartz A., Popp M., Schneller R., Oberg D.: Evaluation of the "Harmony Value": A Sensory Method to Discriminate the Quality Range within the Category of EVOO, Intech, 2016, <http://dx.doi.org/10.5772/64727>

Interpretation / Definition of the "Harmony Value":

Median "harmony"	Rating	Definition / Description
0	VOO	<ul style="list-style-type: none"> <li>• Median of defects &gt; 0 (panel test)</li> </ul>
0.1- 3.0	EVOO / Not acceptable	<ul style="list-style-type: none"> <li>• Median of defects = 0 (panel test), but notation of single defect-assumptions</li> <li>• Overall characteristics are absolutely unbalanced and inharmonious</li> </ul>
3.1 - 4.4	EVOO / Not sufficient	<ul style="list-style-type: none"> <li>• Overall characteristics are rather unbalanced and inharmonious</li> <li>• Flavour is rather one-sided (if any at all)</li> <li>• Rare pleasant aspects do not last very long resp. are not very persistent</li> </ul>
4.5 - 5.0	EVOO / Lower standard	<ul style="list-style-type: none"> <li>• Oil shows an average quality → "just in"</li> <li>• Overall characteristics are more or less balanced and quite harmonious</li> <li>• Flavour diversity is rather narrow → average</li> <li>• Some pleasant aspects do not last long resp. are not persistent</li> </ul>
5.1 - 5.4	EVOO / Upper standard	<ul style="list-style-type: none"> <li>• Oil shows an average quality → "well in"</li> <li>• Overall characteristics are balanced and harmonious</li> <li>• Flavour diversity is getting broader → still average</li> <li>• Some pleasant aspects last a bit longer resp. are a bit more persistent</li> </ul>
5.5 - 6.4	EVOO / Good	<ul style="list-style-type: none"> <li>• Overall characteristics are well balanced and harmonious</li> <li>• Flavour diversity is getting broader</li> <li>• Many pleasant aspects last a bit longer resp. are a bit more persistent</li> </ul>
6.5 – 7.5	EVOO / Very good	<ul style="list-style-type: none"> <li>• Overall characteristics are very well balanced and harmonious</li> <li>• Flavour diversity is broad</li> <li>• Many pleasant aspects last longer resp. are more persistent</li> </ul>
7.6 – 10.0	EVOO / Excellent	<ul style="list-style-type: none"> <li>• Characteristic of oil is perfectly balanced and harmonious</li> <li>• Flavour diversity is very complex</li> <li>• Many pleasant characteristics last very long resp. are very persistent</li> </ul>