

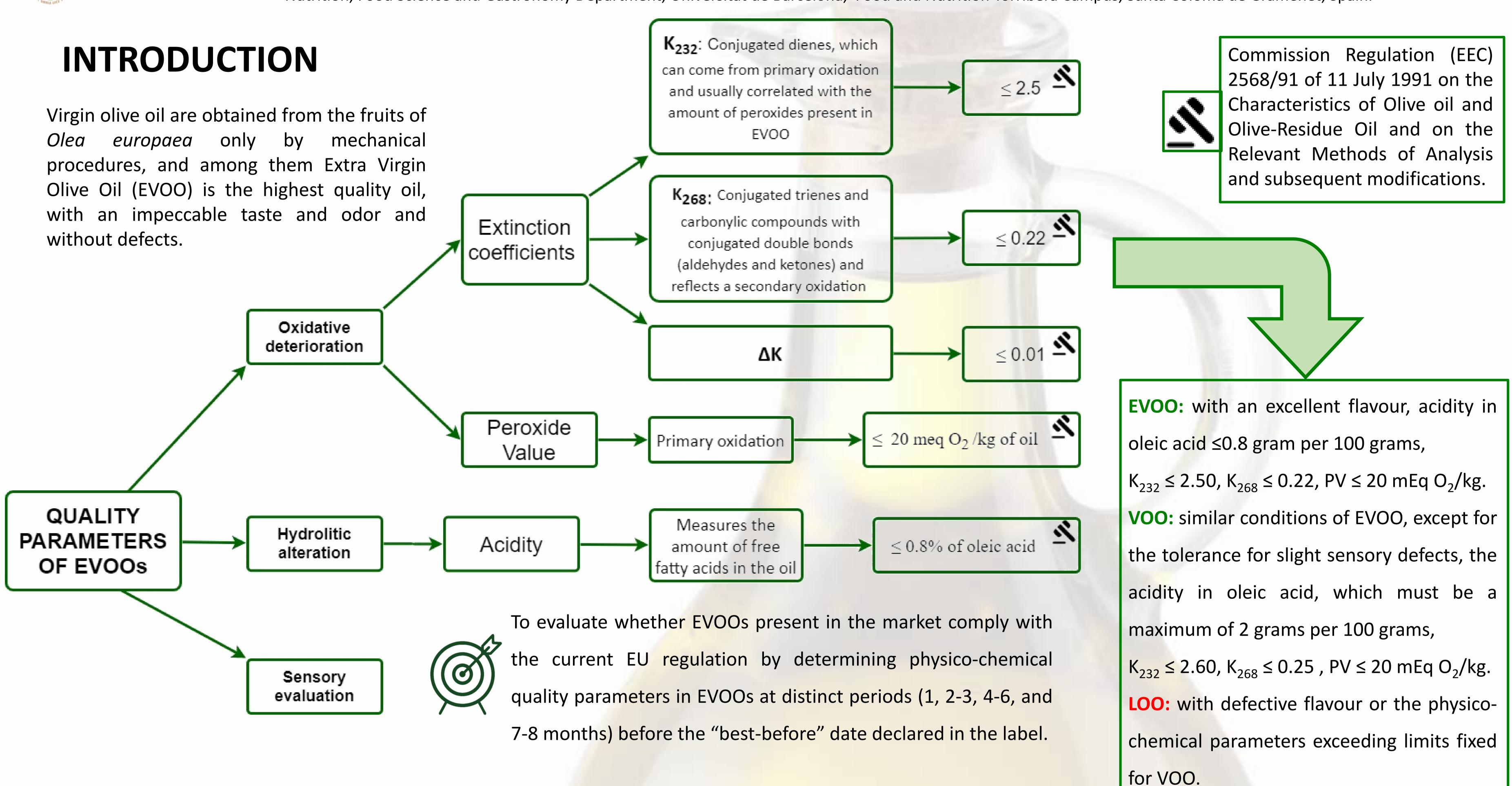
UNIVERSITAT DE BARCELONA

SCREENING OF PHYSICO-CHEMICAL PARAMETERS OF COMMERCIAL EXTRA VIRGIN OLIVE OILS TO VERIFY THEIR COMPLIANCE WITH EU REGULATION



Giménez López, Ana¹

¹ Nutrition, Food Science and Gastronomy Department, Universitat de Barcelona, Food and Nutrition Torribera Campus, Santa Coloma de Gramenet, Spain.



MATERIALS AND METHODS

41 oils from different supermarkets were analysed at different periods depending on the "best-before" date.

afficient periods depending of the best before date.			
PARAMETERS	TIME REMAINING TO THE "BEST-BEFORE" DATE	n	
K ₂₃₂	1 month	15	
K ₂₆₈	2-3 months	10	- 55
ΔΚ	4-6 months	24	
PV	7-8 months	6	
Acidity	1 month	7	41
	2-3 months	10	
	4-6 months	18	
	7-8 months	6	

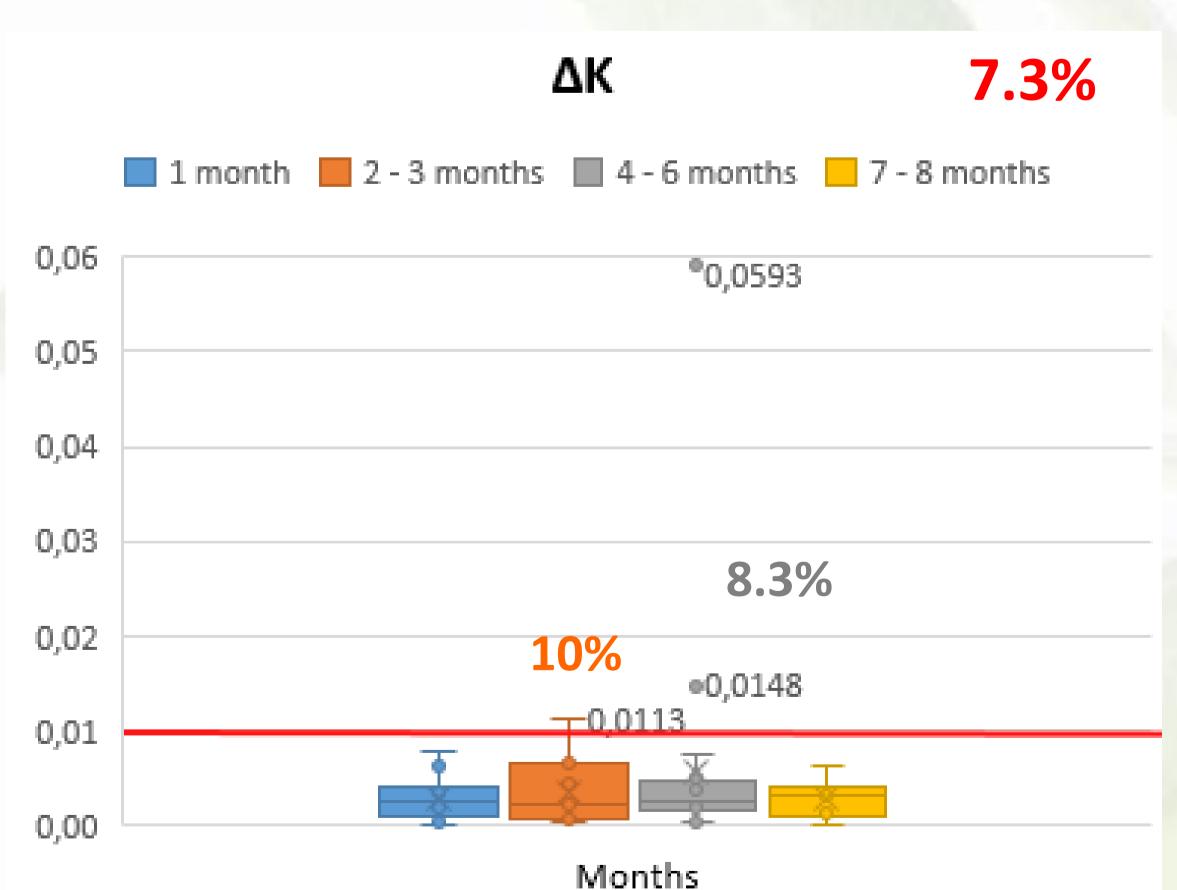


Figure 3. Distribution of ΔK values according to the time remaining to the "best-before" date. The red line marks the maximum limit allowed by EU regulation for EVOOs.

RESULTS AND DISCUSSION

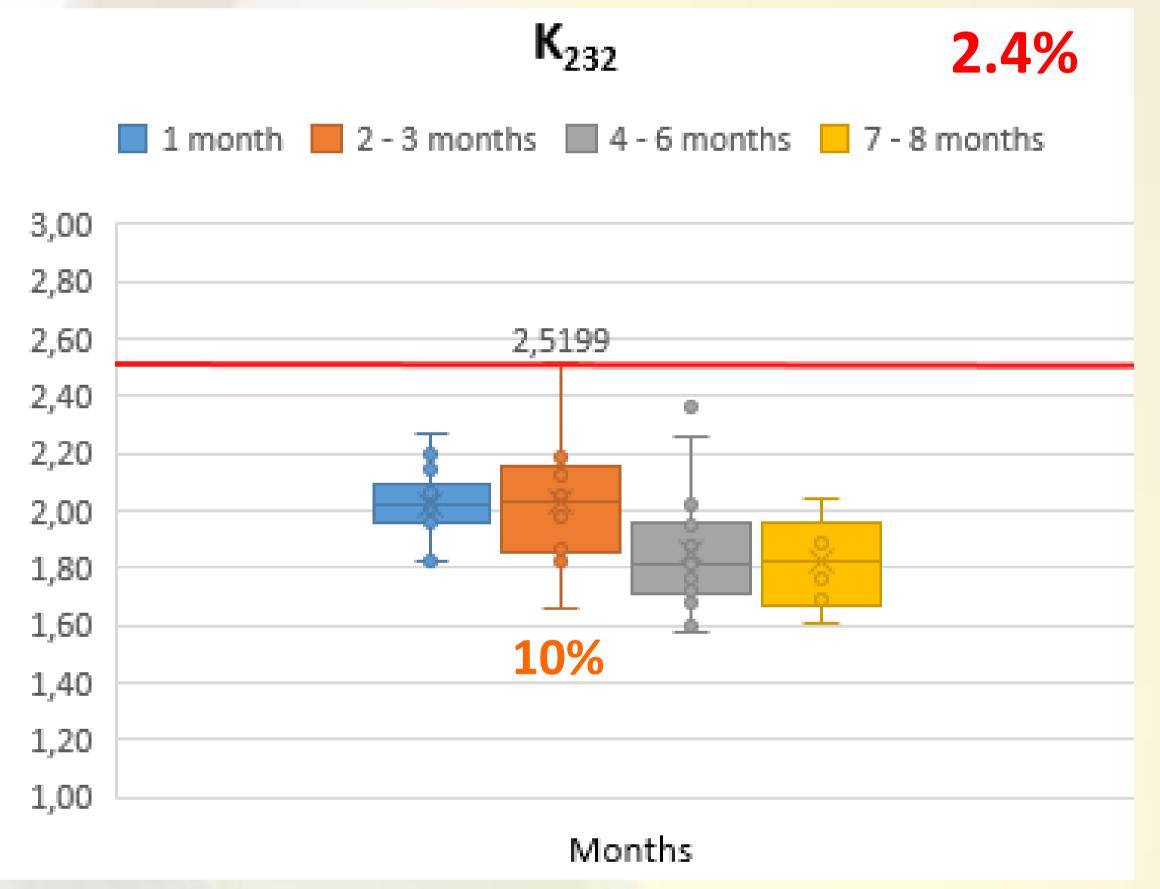


Figure 1. Distribution of K_{232} values according to the time remaining to the "best-before" date. The red line marks the maximum limit allowed by EU regulation for EVOOs.

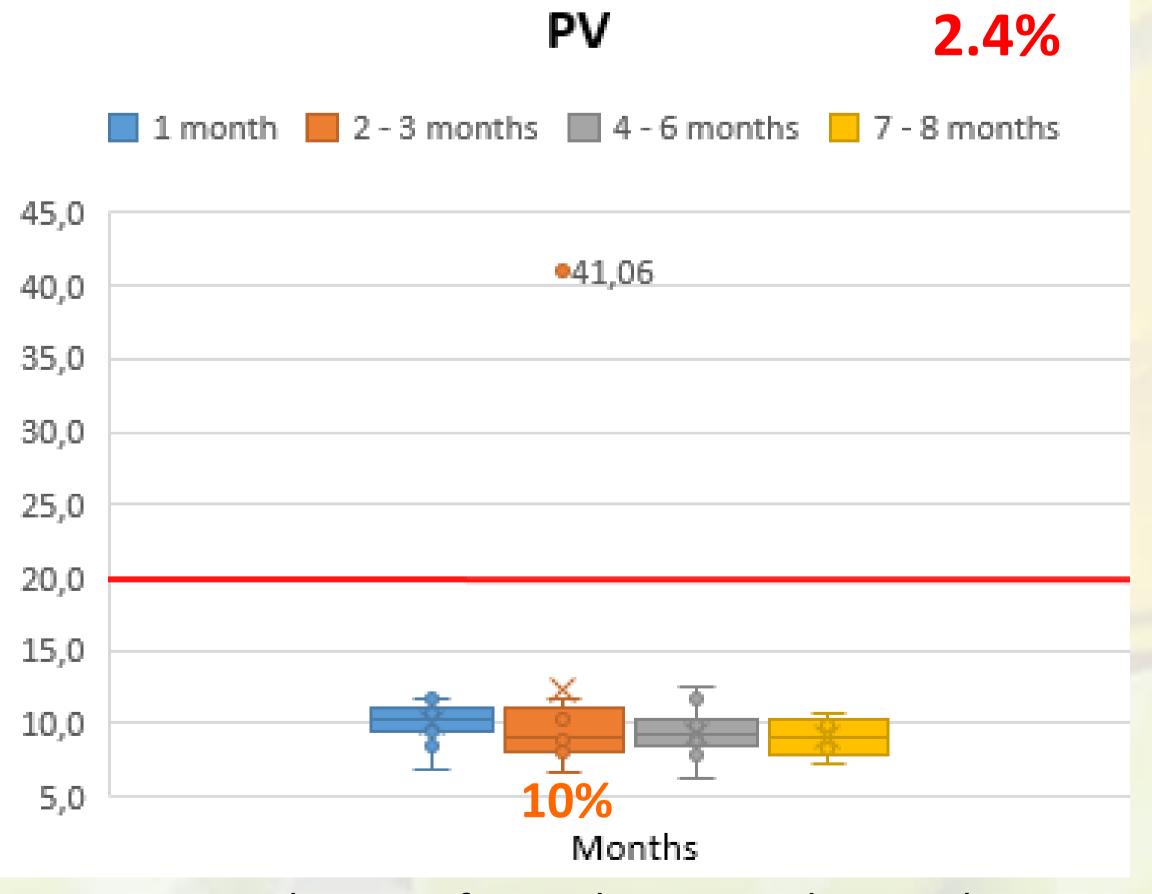


Figure 4. Distribution of PV values according to the time remaining to the "best-before" date. The red line marks the maximum limit allowed by EU regulation for EVOOs.

41 oils

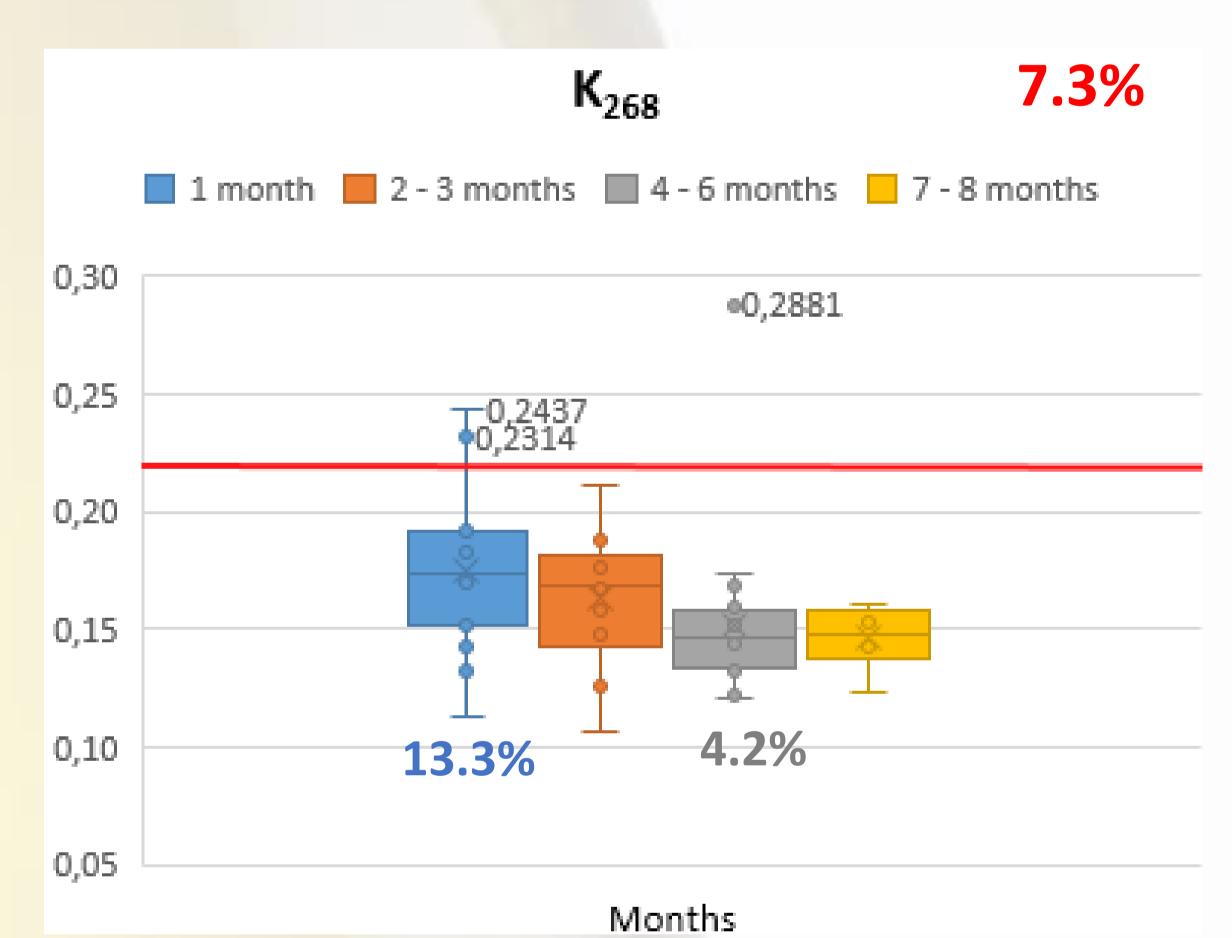


Figure 2. Distribution of K₂₆₈ values according to the time remaining to the "best-before" date. The red line marks the maximum limit allowed by EU regulation for EVOOs.

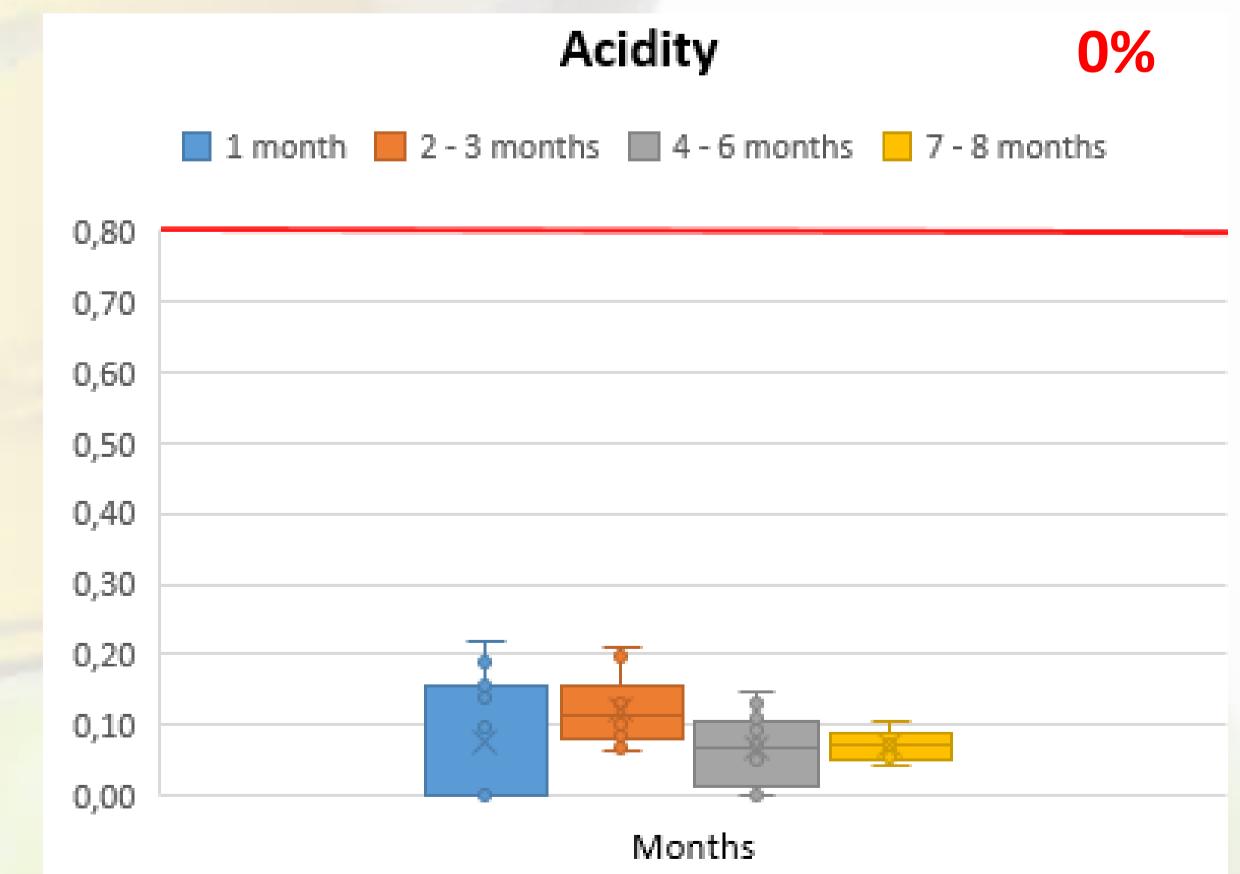


Figure 5. Distribution of Acidity values according to the time remaining to the "best-before" date. The red line marks the maximum limit allowed by EU regulation for EVOOs.

2.4% of EVOOs do not comply for K_{232} and PV 7.3% of EVOOs do not comply for K_{268} and ΔK

Acidity values are far from the limit values

Non-compliance of the EVOO samples \rightarrow oxidative parameters analysed \rightarrow optimal storage conditions