Kalamon



DENOMINATIONS AND SYNONYMS:

(I. Trujillo, D. Barranco, P. Morello)

Tsigkeli, Kalamatiani, Kalamata, Chondrolia, Aetonycholia, Aetonychi, Tsigkeli, Kalamatiani, Kalamata, Chondrolia, Aetonycholia, Aetonychi,

ORIGIN AND DIFFUSION:

It is a Greek variety. It is grown throughout the mainland (Aetoloakarnania, Lakonia, Fthiotida Messinia, Arkadia, Ilia) and recently has been expanded in Thessaly, Macedonia, Epirus, Samos, and Crete. It covers about 24% of the country's table olive-growing acreage and it is the dominant table olive variety in new plantations (DOEPEL, 2022).

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PURPOSE: Oil, Table olives

MORPHOLOGICAL CHARACTERISATION:

	Vigour	Strong	
Tree	Growth habit	Spreading	
	Canopy density	Medium	
	Length	Long	
	Width	Broad	
Leaf blade	Radio length/width	Moderately elongated	
	Curvature of longitudinal axis	Straight	
	Weight	High	
	Radio length/width in position A	Very elongated	
	Over colour at full maturity	Black	
Fruit	Symmetry in position A	Strongly asymmetric	
	Shape of apex in position A	Acute	
	Nipple	Absent or weak	
	Shape of base in position A	Truncate	
	Ratio length/width	Very elongated	
	Weight	High	
	Symmetry in position A	Strongly	
		asymmetric	
	Symmetry in position B	Symmetric	
	Symmetry in position B Number of grooves on basal end	-	
Stone	Number of grooves on	Symmetric Between 7 and	
Stone	Number of grooves on basal end Distribution of grooves	Symmetric Between 7 and 10 Evenly	
Stone	Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position	Symmetric Between 7 and 10 Evenly distributed	
Stone	Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A	Symmetric Between 7 and 10 Evenly distributed Acute	



MOLECULAR CHARACTERISATION (SSRs)

UDO-43	DCA3	DCA9	DCA16	GAPU-101
208/214	229/251	164/192	122/124	191/199

AGRONOMICAL CHARACTERISATION AND COMMERCIAL CONSIDERATIONS

This variety is of medium hardiness (Metzidakis). It has a low rooting ability and an intermediate start of bearing (Kostelenos, 2011). The fruit ripens late and it is harvested when it has undergone a full colour change. Although it is considered of dual purpose, it is grown chiefly for Greek-style black olives. Productivity is high and alternate. The fruit stands up well to preparation and handling. It is processed and packed as natural black olives due to its excellent colour stability. It has a high flesh-to-stone ratio and it is freestone. It gives a medium yield of excellent-quality oil which is rich in polyphenols. It is resistant to salinity (Loupassaki et al., 2002; Chartzoulakis et al., 2002; Chartzoulakis 2005), moderately resistant to cold, and sensitive to excessively hot climates. It is moderately susceptible to olive leaf spot, while less susceptible to olive knot, verticillium wilt (Antoniou et al., 2008) and olive fly (Kalaitzaki et al.). ReferencesAntoniou, P.P., Markakis, E.A., Tjamos, S.E., Paplomatas, E.J., Tjamos, E.C. 2008. Novel methodologies in screening and selecting olive varieties and rootstocks for resistance to Verticillium dahliae. Eur. J. Plant Pathol. 122, 549-560. Chartzoulakis K.S. 2005. Salinity and olive: Growth, salt tolerance, photosynthesis and yield. Agricultural Water Management 78:108-121.DOEPEL (2022) National Interprofessional Organization for Table Olives in Greece.Kalaitzaki A, Koufakis I, Papadaratsaki A, Manolikaki I, Koubouris G (unpublished data) Field evaluation of the susceptibility of olive cultivars to Bactrocera oleae in Western Crete (Southern Greece). Kostelenos G. 2011. Elements of Olive Growing. Book.Loupassaki M.H., Chartzoulakis K.S., Digalaki N.B., Androulakis I.I. 2002. Effects of salt stress on concentration of nitrogen, phosphorus, potassium, calcium, magnesium, and sodium in leaves, shoots, and roots of six olive cultivars. Journal of Plant Nutrition 25 (11):2457-2482. Metzidakis (unpublished data) Agronomical characterization of olive varieties in Greece.

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