Amfissis





DENOMINATIONS AND SYNONYMS:

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

Voliotiki, Agriniou, Artas, Konservolia, Milolia, Patrini, Piliou, Salonitiki, Stylidos, Voliotiki, Agriniou, Artas, Konservolia, Milolia, Patrini, Piliou, Salonitiki, Stylidos,

ORIGIN AND DIFFUSION:

It is a Greek variety. It is cultivated mainly in Central Greece (Fthiotida, Fokida, Evia, Viotia, Aetoloakarnania), Magnesia, Larissa, and Epirus. Recently it has been expanded in Macedonia and other regions of Greece. It used to be the dominant table olive variety in Greece representing 70% of olive groves, however, due to the massive expansion of other varieties during the recent decades, it nowadays covers 30% of the country's table olive growing acreage (DOEPEL, 2022).

Georgios Koubouris

PURPOSE: Oil, Table olives

MORPHOLOGICAL CHARACTERISATION:

Tree Growth habit Upright Canopy density Medium Length Long Width Broad Radio length/width Moderately elongated Curvature of longitudinal axis Weight Very high Radio length/width in position A Over colour at full maturity Symmetry in position A Nipple Absent or weak Shape of base in position A Nipple Shape of base in position A Ratio length/width Very elongated Weight Very high Symmetry in position A Nipple Absent or weak Shape of base in position A Symmetry in position Weakly asymmetric Symmetry in position Symmetric Symmetry in position Symmetric Symmetry in position Symmetric Symmetry in position Symmetric Symmetry in position Strongly grouped around suture Shape of apex in position A Mucron Strongly grouped around suture Shape of apex in position A Mucron Present Shape of base in position A Rugosity of surface Strong		N	\\\ I -	
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Shape of base in position A Rounded			Rounded	
position A		Mucron	Present	
Rugosity of surface Strong		-	Rounded	
		Rugosity of surface	Strong	



MOLECULAR CHARACTERISATION (SSRs)

UDO-43	DCA3	DCA9	DCA16	GAPU-101
172/175	229/251	170/196	122/173	197/199

AGRONOMICAL CHARACTERISATION AND COMMERCIAL CONSIDERATIONS

Amfissis is of medium hardiness, and it has a medium rooting ability (Kostelenos, 2011). When irrigated, it grows quickly and comes into bearing after three to four years (Metzidakis). It has a high pistil abortion rate. Its time of flowering is intermediate while the time of ripening is intermediate-late. Productivity is high and alternate. The harvest date depends on the end use of the fruit. Its ability to adapt to different environmental conditions means that it can be cultivated from sea level up to an altitude of 500-600 meters, provided rainfall is not less than 500 mm/year. It is used for preparing green olives, natural black olives and natural olives turning colour. It is also used for oil production. The fruit has a medium content of good-quality oil. The flesh of the fruit is firm, and it is, therefore, resistant to damage during transportation and handling, which is why it is also intended for black pickling. It is a freestone variety. It is resistant to olive knot, whereas it is susceptible to verticillium wilt (Markakis et al., 2022) and olive fly (Kalaitzaki et al.). It is tolerant to drought and cold while it is sensitive to salinity (Koubouris et al., 2015).ReferencesDOEPEL (2022) National Interprofessional Organization for Table Olives 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.Koubouris G.C., Tzortzakis N., Kourgialas, N.N., Darioti M., Metzidakis I. 2015. Growth, photosynthesis and pollen performance in saline water treated olive plants under high temperature. International Journal of Plant Biology 6:6038. Markakis E.A., Krasagakis N., Manolikaki I., Papadaki A.A., Kostelenos G., Koubouris G. 2022. Evaluation of Olive Varieties Resistance for Sustainable Management of Verticillium Wilt. Sustainability 14: 9342.Metzidakis (unpublished data) Agronomical characterization of olive varieties in Greece.

Georgios Koubouris