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Bombino Nero

de Palma L., Tarricone L., De Michele M., , Sacco L. Limosani P., 2012. Bombino nero. In: Italian Vitis Database, www.vitisdb.it, ISSN 2282-006X

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Information managed by

Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia

General information

name Bombino Nero
code ITA428-TV2
country of selection Italia
region of selection Puglia
province of selection Bari
locality of selection Corato
holding institution Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia
collection vineyard Az. Torresanta (Corato, BA).

Variety & clone

type of origin spontanea
genera Vitis
specie Vitis vinifera
subspecie sativa
variety Bombino Nero
variety code IVD-var_310
clone not available
trueness to type confirmed by ampelography and SSR-markers

Trueness to type

True-name

confirmed **yes**

Trueness to type confirmed by ampelography

confirmation by ampelography **confirmed**

related bibliography (1)

authors	year	title	journal	citation
Del Gaudio S., Valiventi V.,	1962	Bombino nero.		Principali vitigni da vino coltivati in Italia. Ministero dell'Agricoltura e delle Foreste.

Trueness to type confirmed by SSR-markers

confirmation by SSR-markers **confirmed**

related bibliography (1)

authors	year	title	journal	citation
Ministero delle Politiche Agricole e Forestali.	s.d.	Registro Nazionale delle Varietà di Vite.		http://catalogoviti.politicheagricole.it/

compared loci n.a.

identical loci n.a.

discrepancies n.a.

Standardized microsatellite profile

loci:	predefined loci (9)																	
SSR locus:	VVS2		VVMD5		VVMD7		VVMD27		VrZAG62		VrZAG79		VVMD25		VVMD28		VVMD32	
allele:	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2
size:	133	145	225	227	239	253	179	181	186	200	255	259	240	242	251	251	241	259

other Locus info available online

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Images

shoot

leaf

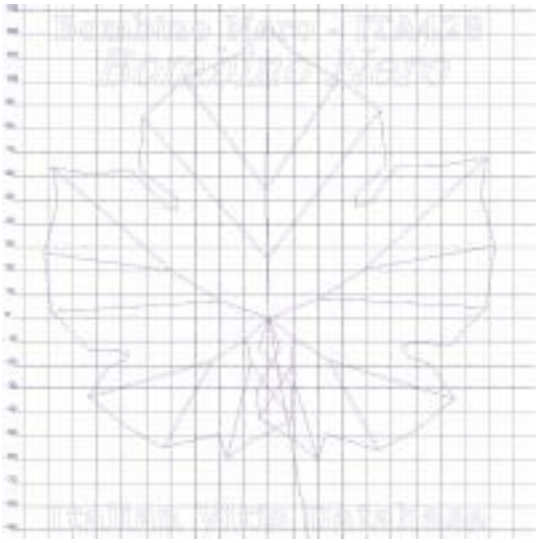
bunch

Ampelography

OIV	description	value		images
001	Young shoot: opening of the shoot tip	1	closed	
003	Young Shoot: intensity of anthocyanin coloration on prostrate hairs of tip	1 / 3	none or very low / low	
004	Young Shoot: density of prostrate hairs on tip	7 / 9	high / very high	
006	Shoot: attitude (before tying)	1 / 3	erect / semi-erect	
007	Shoot: color of dorsal side of internodes	1	green	
008	Shoot: color of ventral side of internodes	1	green	
016	Shoot: number of consecutive tendrils	1	2 or less	
051	Young leaf: color of the upper side of blade (4 th leaf)	1 / 2	green / yellow	
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	9	very high	
067	Mature leaf: shape of blade	2 / 4	wedge-shaped / circular	
068	Mature leaf: number of lobes	3	five	
070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	1	absent	
075	Mature leaf: blistering of upper side of blade	5	medium	
076	Mature leaf: shape of teeth	2	both sides straight	
079	Mature leaf: degree of opening / overlapping of petiole sinus	7	overlapped	
080	Mature leaf: shape of base of petiole sinus	2 / 3	brace-shaped ({) / V-shaped	
081-1	Mature leaf: teeth in the petiole sinus	1	none	
081-2	Mature leaf: petiole sinus base limited by veins	1	not limited	
083-2	Mature leaf: teeth in the upper lateral sinuses	1	none	
084	Mature leaf: density of prostrate hairs between the main veins on lower side of blade	5	medium	
087	Mature leaf: density of erect hairs on main veins on lower side of blade	3	low	
151	Flower: sexual organs	3	fully developed stamens and fully developed gynoecium	
153	Inflorescence: number of inflorescences per shoot	2	1,1 to 2 inflorescences	
155	Shoot: fertility of basal buds (buds 1-3)	5	medium (1,1-1,3)	
202	Bunch: length (peduncle excluded)	5	medium	
204	Bunch: density	7 / 9	dense / very dense	
206	Bunch: length of peduncle of primary bunch	3	short	
208	Bunch: shape	1 / 2	cylindrical / conical	
209	Bunch: number of wings of the primary bunch	3	3 - 4 wings	

220	Berry: length	5	medium
221	Berry: width	3 / 5	narrow / medium
223	Berry: shape	2 / 3	globose / broad ellipsoid
225	Berry: color of skin	6	blue black
231	Berry: intensity of flesh anthocyanin coloration	1	none or very weak
236	Berry: particularity of flavor	1	none
241	Berry: formation of seeds	3	complete

Ampelometry



ampelometric leaf

OIV

OIV	PDF	description	value	
601	PDF	Mature leaf: length of vein N1	5	medium (135 mm)
602	PDF	Mature leaf: length of vein N2	5	medium (105 mm)
603	PDF	Mature leaf: length of vein N3	5	medium (75 mm)
604	PDF	Mature leaf: length of vein N4	9	very long (55 mm and over)
605	PDF	Mature leaf: length petiole sinus to upper lateral leaf sinus	3	short (50 mm)
606	PDF	Mature leaf: length petiole sinus to lower lateral leaf sinus	5	medium (60 mm)
607	PDF	Mature leaf: angle between N1 and N2 measured at the first ramification	7	large (56°-70°)
608	PDF	Mature leaf: angle between N2 and N3 measured at the first ramification	7	large (56°-70°)
609	PDF	Mature leaf: angle between N3 and N41) measured at the first ramification	7	large (56°-70°)
610	PDF	Mature leaf: angle between N3 and the tangent between petiole point	9	very large (> 70°)
612	PDF	Mature leaf: length of tooth N2	5	medium (14 mm)
613	PDF	Mature leaf: width of tooth N2	7	wide (18 mm)
614	PDF	Mature leaf: length of tooth N4	3	short (10 mm)
615	PDF	Mature leaf: width of tooth N4	5	medium (14 mm)
616	PDF	Mature leaf: number of teeth between the tooth tip of N2 and the tooth tip of the first secondary vein of N2 including the limits	3	small (about 4)

Superampelo

distances		
descriptor	value	standard deviation
Length of vein N4	54.070	5.880
Distance between petiole point and end of vein N4'	62.660	6.700
Length of vein N5	26.660	4.943
Length of vein N4'	52.060	6.570
Leaf width	178.540	18.614
Leaf length Including the petiole	225.730	24.866
Distance between petiole point and end of vein N4	64.570	5.185
Leaf length	187.560	12.691
Distance between the ends of veins N2 and N2'	177.300	19.166
Distance between the ends of veins N3 and N3'	149.680	11.311
Petiole length	101.790	20.147
Length of vein N1	123.950	8.584
Length of vein N2	112.160	8.714
Length of vein N2'	109.580	10.842
Distance between the ends of veins N4 and N4'	38.010	16.966
Width of petiole sinus / Distance between points SP and SP'	-17.920	7.981
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2	69.270	14.283
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'	66.060	15.102
Length of vein N3	83.560	6.896
Length of vein N3'	82.190	7.724
Height of the tooth on the end of N2	13.260	3.282
Altezza del dente posto all’estremità di N2'	13.160	2.493
Height of the tooth on the end of N4	10.710	2.361
Height of the tooth on the end of N4'	9.690	3.646
Base of the tooth located at the end of N4	14.020	3.133
Base of the tooth located at the end of N2'	18.120	3.402
Base of the tooth located at the end of N4'	14.920	2.591
Distance from the petiole sinus to the lower right sinus	55.760	7.518
Distance from the petiole sinus to the upper left sinus	59.280	13.227
Base of the tooth located at the end of N2	19.310	3.402
Distance from the petiole sinus to the lower left sinus	59.750	9.464
Vein N3, length from the petiole sinus to vein N4	13.160	2.373
Length of vein N5'	30.320	4.722
Distance from the petiole sinus to the upper right sinus	59.110	11.014
Vein N3', length from the petiole sinus to vein N4'	12.970	3.500

angles		
descriptor	value	standard deviation
Angle between N2 and N3 measured at the first bifurcation	61.520	5.273
Angle between N2 and N3' measured at the first bifurcation	60.940	5.355
Angle between N1 and N2 measured at the first bifurcation	69.180	4.030
Angle between N1 and N2' measured at the first bifurcation	69.220	5.186
Angle between N1 and N2 measured at the ends of the veins	52.510	6.954
Angle between N1' and N2' measured at the ends of the veins	53.940	5.936
Angle between N3 and N4 at the first fork of N3	60.810	4.570
Angle between N3' and N4'	64.570	6.162
Angle between N3 and N4 measured at the ends of the veins	47.440	8.358
Angle between N3' and N4' measured at the ends of the veins	49.550	6.779
Angle between N2 and N3 measured at the ends of the veins	61.830	8.881
Angle between N2' and N3' measured at the ends of the veins	60.140	8.426
Angle between S and S' with the center in N1	50.740	10.930
Angle between I and I' with the center in N1	44.120	5.410
Angle of opening of the petiole sinus measured at SP and at SP'	31.950	15.539
Angle between D and D' with the center in N1	104.480	11.713
Angle between N2 and N3 measured at the petiole point and between N2 and N3 tooth tip	71.210	11.738
Angle between N2 and N3 measured at the petiole point and between N2' and N3' tooth tip	78.100	10.061
Sum of the angles alpha' + beta' + gamma'	194.710	10.950
Sum of the angles alpha + beta + gamma	191.490	11.497
Sum of the angles alpha' + beta'	130.160	7.747
Sum of the angles alpha + beta	130.700	8.369

rations		
descriptor	value	standard deviation
Media of the base of the teeth of the left side	10.630	2.089
Media height of the teeth of the left side	10.448	2.252
Ratio between the height and the base of the tooth at the end of the vein N4'	0.633	0.213
Ratio between the height and the base of the tooth at the end of the vein N4	0.770	0.100
Media of the base of the teeth of the right side	10.560	2.308
Media height of the teeth of the right side	11.564	1.551
Ratio between the height and the base of the teeth of the left side	0.986	0.110
Ratio between the height and the base of the teeth of the right side	1.119	0.163
Ratio between the height and the base of the tooth at the end of the vein N2'	0.735	0.131
Ratio between the height and the base of the tooth at the end of the vein N2	0.688	0.144
Ratio between the sum of the angles a' + b' and the sum of the distance between the petiole sinus and upper right sinus OS' and the petiole sinus and lower right lower right sinus OI'	0.020	0.003
Ratio between the sum of the angles a + b and the sum of the distance between the petiole sinus and upper right sinus OS and the petiole sinus and lower right lower right sinus OI	0.020	0.003
Ratio between the length of the vein N5' and the length of the vein N1	0.246	0.042
Ratio between the length of the vein N5 and the length of the vein N1	0.215	0.040
Ratio between the length of the vein N3' and the length of the vein N1	0.663	0.041
Ratio between the length of the vein N3 and the length of the vein N1	0.676	0.053
Ratio between the length of the vein N4' and the length of the vein N1	0.421	0.052
Ratio between the length of the vein N4 and the length of the vein N1	0.438	0.053
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.728	0.098
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.669	0.089
Ratio between the length of the vein N2' and the length of the vein N1	0.883	0.053
Ratio between the length of the vein N2 and the length of the vein N1	0.906	0.051
Ratio between the length of the petiole OP and the length of the vein N1	0.821	0.152
Ratio between length and width of the leaf	1.056	0.072
Ratio between the distance from the sinus and the length of the vein N2'	0.541	0.100
Ratio between the distance from the sinus and the length of the vein N2	0.527	0.091
Multiplication between length and width of the leaf	33647.860	5507.090

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Phenology & production

OIV	description	value	
301	Time of bud burst	7	late
303	Time of beginning of berry ripening (veraison)	5 / 7	medium / late
351	Vigor of shoot growth	5	medium (70-80 g)
502	Bunch: weight of a single bunch	3 / 5	low (250-350 g) / medium (450-550 g)
503	Berry: single berry weight	3	low (2,5-3,5 g)
504	Yield per m2	5	medium (1,4-1,6 kg)
505	Sugar content of must	5	medium (17,2-18,8)
506	Total acid content of must	3	low (5,2-6,8)
508	must specific pH	5	medium (3,2-3,3)

Agronomic

plant spacing & training system	value	standard deviation	number of years
Training system			
Pruning System			
Distance between rows (m)	2.200		
Distance on the row (m)	2.200		

vigor	value	standard deviation	number of years
Number of shoots/canes per vine (number/vine)	40.000		2
Cane’s weight (g)	80.770		2
Pruning wood’s weight per vine (kg)	3.390		2

fertility	value	standard deviation	number of years
Number of bunch per shoots at flowering (number/shoot)	1.500		2
Fertility of basal buds (bunch/bud)	1.500		2

production's quantitative characteristics	value	standard deviation	number of years
Number of bunches per vine (number/vine)	60.000		2
Berry diameter (average of 25 berries) - width (mm)	16.970		2
Berry diameter (average of 25 berries) - height (mm)	16.480		2
Bunch’s weight (g)	305.000		2
Grape production per vine (kg/ceppo)	18.300		2
Grape production per hectare (t/ha)	37.810		2
Weight of 100 berries (g)	301.000		2
Grape production per meter of row (kg/m)	8.320		2

production's qualitative characteristics	value	standard deviation	number of years
Skin total polyphenols (g/kg)	1.026		2
Seeds total polyphenols (g/kg)	0.568		2
Skin total anthocyanins (g/kg)	0.424		2
pH (pH)	3.400		2
Titratable acidity of must (g/l)	5.550		2
Sugar content of must (°Brix)	18.400		2

Berry polyphenols

no polyphenolic descriptors available for Bombino Nero

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Berry aroma

no aroma descriptors available for Bombino Nero

Other descr.

no other descriptors available for Bombino Nero

Accessions of the same variety (1)

- Bombino Nero - Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia