



Liana

Carlomagno A., Ferrandino A., Kedrina O., Ruffa P., Raimondi S., Novello V. (2014) - Liana. In: Italian Vitis Database, www.vitisdb.it, ISSN 2282-006X
release 13/07/2015, **Last update** 13/07/2015 **url** http://vitisdb.it/accessions/show/15818

Information managed by

Dipartimento di Scienze Agrarie, Forestali e Alimentari - Università degli Studi di Torino

Acknowledgments

Ager IVD; Istituto di Istruzione Superiore di Stato 'Umberto I' - Alba (CN)

General information

name Liana **code** ITA424-048
country of selection Italia **region of selection** Piemonte
province of selection not available **locality of selection** not available
holding institution Dipartimento di Scienze Agrarie, Forestali e Alimentari - Università degli Studi di Torino
collection vineyard Campo collezione Ampelion - Alba (CN)

Variety & clone

type of origin incrocio intraspecifico **genera** Vitis
specie Vitis vinifera **subspecie** sativa
variety Liana **variety code** IVD-var_298
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**

Trueness to type confirmed by SSR-markers

confirmation by SSR-markers **confirmed**

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:	135	143	231	237	243	249	179	195	186	188	255	255	256	256	237	247	241	273

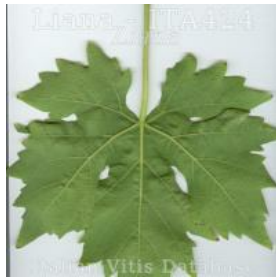
Images



shoot



leaf






leaflets



bunch

Ampelography

OIV	description	value		images
004	Young Shoot: density of prostrate hairs on tip	3	low	
007	Shoot: color of dorsal side of internodes	1 / 2	green / green and red	
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)	3	bronze	
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	1	none or very low	
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	1	absent or very weak	
076	Mature leaf: shape of teeth	5 / 2 (Ø 3)	mixture between both sides straight (note 2) and both sides convex (note 3) / both sides straight	
079	Mature leaf: degree of opening / overlapping of petiole sinus	3 / 7	open / overlapped	
080	Mature leaf: shape of base of petiole sinus	2	brace-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	1	none or very low	
087	Mature leaf: density of erect hairs on main veins on lower side of blade	1 / 3	none or very low / low	
155	Shoot: fertility of basal buds (buds 1-3)	5	medium (1,1-1,3)	
202	Bunch: length (peduncle excluded)	7 / 5	long / medium	
204	Bunch: density	5	medium	
208	Bunch: shape	2	conical	
220	Berry: length	5 / 7	medium / long	
221	Berry: width	5 / 7	medium / wide	
223	Berry: shape	7 / 8	ovoid / obovoid	
225	Berry: color of skin	5	dark red violet	
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

OIV

no descriptors available for Liana

Superampelo

distances		
descriptor	value	standard deviation
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2	48.478	22.876
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'	48.756	12.037
Distance from the petiole sinus to the lower right sinus	40.633	5.730
Distance from the petiole sinus to the lower left sinus	38.111	8.936
Distance from the petiole sinus to the upper right sinus	35.878	8.685
Distance from the petiole sinus to the upper left sinus	41.244	10.396
Vein N3, length from the petiole sinus to vein N4	13.456	3.925
Vein N3', length from the petiole sinus to vein N4'	13.378	3.630
Length of vein N5	17.367	5.988
Length of vein N5'	16.833	6.063
Length of vein N4	44.822	9.885
Length of vein N4'	44.400	7.830
Leaf width	165.889	27.950
Leaf length	166.078	28.786
Petiole length	79.344	26.161
Leaf length Including the petiole	202.022	41.242
Distance between the ends of veins N2 and N2'	151.056	30.719
Length of vein N1	122.678	17.624
Distance between the ends of veins N4 and N4'	75.800	14.214
Distance between the ends of veins N3 and N3'	159.000	25.358
Length of vein N2	114.611	16.787
Width of petiole sinus / Distance between points SP and SP'	-28.378	6.524
Length of vein N3	79.522	13.519
Length of vein N2'	115.432	15.310
Length of vein N3'	81.744	13.524

angles		
descriptor	value	standard deviation
Angle between N1 and N2 measured at the first bifurcation	56.700	6.465
Angle between N2 and N3 measured at the first bifurcation	47.200	10.330
Angle between N1 and N2' measured at the first bifurcation	53.767	7.158
Angle between N3 and N4 at the first fork of N3	52.389	4.035
Angle between N2 and N3' measured at the first bifurcation	48.356	9.472
Angle between N1 and N2 measured at the ends of the veins	40.622	9.105
Angle between N3' and N4'	53.311	8.995
Angle between N2 and N3 measured at the ends of the veins	56.033	9.336
Angle between N1' and N2' measured at the ends of the veins	41.378	6.741
Angle between N3 and N4 measured at the ends of the veins	40.489	6.661
Angle between N2' and N3' measured at the ends of the veins	52.644	7.497
Angle of opening of the petiole sinus measured at SP and at SP'	78.300	20.603
Angle between N3' and N4' measured at the ends of the veins	40.067	6.820
Angle between S and S' with the center in N1	25.322	6.771
Angle between D and D' with the center in N1	103.922	22.635
Angle between I and I' with the center in N1	36.578	4.436

rations		
descriptor	value	standard deviation
Media of the base of the teeth of the left side	11.956	2.287
Media of the base of the teeth of the right side	11.650	1.927
Media height of the teeth of the left side	7.666	1.427
Ratio between the height and the base of the tooth at the end of the vein N4'	0.847	0.246
Media height of the teeth of the right side	7.650	1.415
Ratio between length and width of the leaf	1.005	0.101
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'	0.023	0.004
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	0.024	0.003
Ratio between the height and the base of the teeth of the left side	0.644	0.062
Ratio between the height and the base of the teeth of the right side	0.657	0.068
Ratio between the height and the base of the tooth at the end of the vein N2'	1.093	0.194
Ratio between the height and the base of the tooth at the end of the vein N2	1.141	0.349
Ratio between the height and the base of the tooth at the end of the vein N4	0.896	0.180

Phenology & production

OIV	description	value	
301	Time of bud burst	5 / 7	medium / late
302	Time of full bloom	5 / 7	medium / late
303	Time of beginning of berry ripening (veraison)	5 / 7	medium / late
304	Time of physiological stage of full maturity of the berry	7 / 9	late / very late
351	Vigor of shoot growth	5 / 7	medium (70-80 g) / strong (90-100 g)
452	Leaf: degree of resistance to Plasmopara	5 / 7	medium / high
453	Cluster: degree of resistance to Plasmopara	5 / 7	medium / high to very high
455	Leaf: degree of resistance to Oidium	7	high
456	Cluster: degree of resistance to Oidium	5	medium
458	Leaf: degree of resistance to Botrytis	5 / 7	medium / high or very high
459	Cluster: degree of resistance to Botrytis	9	very high
501	Percentage of berry set	7 / 9	high / very high
502	Bunch: weight of a single bunch	3 / 5	low (250-350 g) / medium (450-550 g)
503	Berry: single berry weight	5	medium (4,5-5,5 g)
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

vigor		value	standard deviation	number of years
Number of shoots/canes per vine (number/vine)		10.000	0.000	0
Number of shoots/canes per meter of row (number/m)		8.330	0.000	2
Pruning wood's weight per vine (kg)		0.850	0.141	2
Pruning wood's weight per vine meter of row (kg)		0.708	0.118	2

fertility		value	standard deviation	number of years
Number of bunch per shoots at flowering (number/shoot)		0.950	0.141	2

production's quantitative characteristics	value	standard deviation	number of years
Bunch's weight (g)	307.560	110.521	2
Number of bunches per vine (number/vine)	9.500	1.414	2
Number of bunches per meter of row (number/m)	7.920	1.181	2
Grape production per vine (kg/ceppo)	3.000	1.485	2
Grape production per meter of row (kg/m)	2.500	1.237	2
Grape production per hectare (t/ha)	12.500	6.187	2
Weight of 100 berries (g)	420.850	1.909	2
Berry diameter (average of 25 berries) - width (mm)	20.000	2.000	2
Berry diameter (average of 25 berries) - height (mm)	22.500	3.536	2

production's qualitative characteristics	value	standard deviation	number of years
Sugar content of must (°Brix)	19.850	1.485	2
pH (pH)	3.420	0.184	2
Titrateable acidity of must (g/l)	4.125	0.841	2

Berry polyphenols

acylated anthocyanins	skin (mg/kg) (std dev)	seed (mg/kg) (std dev)	flesh (mg/kg) (std dev)
malvidina monoglucoside p-cumarato	11.90		
peonidina monoglucoside acetato	4.58		
malvidina monoglucoside caffeato	1.35		
delfinidina monoglucoside p-cumarato	1.07		
petunidina monoglucoside p-cumarato	1.17		
peonidina monoglucoside p-cumarato	17.75		
cianidina monoglucoside p-cumarato	3.24		
malvidina monoglucoside acetato	3.63		
delfinidina monoglucoside acetato	1.47		

anthocyanins monoglycosides	skin (mg/kg) (std dev)	seed (mg/kg) (std dev)	flesh (mg/kg) (std dev)
delfinidina-3-monoglucoside	5.63		
petunidina-3-monoglucoside	7.94		
cianidina-3-monoglucoside	12.00		
malvidina-3-monoglucoside	76.76		
peonidina-3-monoglucoside	118.54		

Berry aroma

aliphatic alcohols	free (mg/kg) (std dev)	enzymatic hydrolysis (mg/kg) (std dev)	acid hydrolysis (mg/kg) (std dev)
1-esanolo			

monoterpens	free (mg/kg) (std dev)	enzymatic hydrolysis (mg/kg) (std dev)	acid hydrolysis (mg/kg) (std dev)
limonene			

Other descr.

no other descriptors available for Liana

Related bibliography (3)

authors	year	title	journal	citation
Dalmasso G.		Quaderno degli Incroci ad uva da tavola (Manoscritto)		Dalmasso G., Quaderno degli Incroci ad uva da tavola (Manoscritto)
Novello V., Ocelli P., de Palma L.	1995	Comportamento di nuove uve da tavola in Puglia	Rivista di Frutticoltura	Vol. 5: 39-45:
Eynard I. e Dalmasso G.	1991	Viticultura Moderna. Manuale pratico		Ulrico Hoepli Editore (IX edizione)

Accessions of the same variety (1)

- Liana - Dipartimento di Scienze Agrarie, Forestali e Alimentari - Università degli Studi di Torino