

Vitalis lettuce varieties against new Bremia fysio Bl:33EU

The International Bremia Evaluation Board for the EU (IBEB-EU) recently announced a new race of Bremia, Bl:33EU. Our tests confirm that a large part of the Vitalis lettuce portfolio is resistant to this new race and also resistant to the full range of Bremia races Bl:16-33EU. This document gives you an overview of all our lettuce varieties that have this new Bremia Bl:33EU resistance.

Variety	Type	Resistance	
		HR	IR
Greenhouse Lettuce			
Ferega	Batavia	Bl:16-33EU/TBSV	
Zoraga (E01A.30410)	Batavia	Bl:16-33EU/TBSV	
Brighton	Butterhead	Bl:16-33EU	
Espelo (E01B.30276)	Butterhead	Bl:16-33EU/TBSV	
Espirando	Butterhead	Bl:16-26,28-33EU/Nr:0	
Fairly	Butterhead	Bl:16-33EU/Nr:0	
Fakto	Butterhead	Bl:16-33EU	
Marbelo (E01B.30165)	Butterhead	Bl:16-33EU/Nr:0	
Jokary (E01C.30304)	Lollo Bionda	Bl:16-33EU/Nr:0	
Tregoney	Little gem green	Bl:16-33EU/Nr:0	
Butterhead			
Analena		Bl:16-25,27-33EU/Nr:0	LMV:1
Analora		Bl:16-33EU/Nr:0	LMV:1
Analotta (E01D.30136)		Bl:16-33EU/Nr:0	LMV:1
Anandra		Bl:16-33EU/Nr:0	LMV:1
Donela		Bl:16-33EU/Nr:0	
Iceberg			
E01E.10398		Bl:16-33EU/Nr:0/Pb	
Buda (E01E.10255)		Bl:16-33EU/Nr:0	
Clarist		Bl:16-33EU/Nr:0/Pb	
Dillon		Bl:16-33EU/Nr:0/Pb	
Eduardo		Bl:16-33EU/Nr:0	
Elmundo		Bl:16-33EU/Nr:0	
Gemela		Bl:16-33EU/Nr:0	
Pelayo (E01E.10137)		Bl:16-33EU/Nr:0	
Severo		Bl:16-33EU/Nr:0	
Vytalist		Bl:16-33EU/Nr:0/Pb	
Batavia			
Flexila (E01F.30350)		Bl:16-33EU/Nr:0/TBSV	LMV:1/Fol:1
Olana		Bl:16-33EU/Nr:0/TBSV	LMV:1
Ozeka (E01F.30352)		Bl:16-33EU/Nr:0/TBSV	LMV:1

HR: High Resistance | IR: Intermediate Resistance. For an explanation of the resistance codes displayed please see page 3.

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Romaine			
Rainier	Romaine green	Bl:16-27,29,30,32,33EU/Nr:0/TBSV	Ss
Tuolomne	Romaine green	Bl:16-27,29,30,32,33EU/Nr:0/TBSV	Ss
Ovired	Mini red	Bl:16-21,23-26,28-33EU	
Xalbadora (E01G.10273)	Mini green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Xamena	Mini green	Bl:16-33EU/Nr:0/TBSV	LMV:1/Ss
Ximenes (E01G.10477)	Mini green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Xiomara (E01G.10515)	Mini green	Bl:16-33EU/Fol:1/Nr:0/TBSV	LMV:1
Moonred	Mini red	Bl:16-26,28-33EU/TBSV	LMV:1
Little Gem			
Maureen	Little Gem green	Bl:16-21,23-26,28-33EU/Fol:1/Pb	
Alborada	Little Gem dark green	Bl:16-33EU/Fol:1/Nr:0/TBSV	
Alcazaba	Little Gem dark green	Bl:16-33EU/Nr:0	LMV:1/Ss
Carterham	Little Gem dark green	Bl:16-33EU/Nr:0/Pb	LMV:1
Newham	Little Gem dark green	Bl:16-21,23-26,28-33EU/Nr:0/Pb	LMV:1/Ss
Truchas	Little Gem red	Bl:16-33/TBSV	LMV:1
Babyleaf			
Tamarindo	Romaine red	Bl:16-33EU	
Celinet	Green Leaf/Batavia	Bl:16-33EU/Nr:0/TBSV	LMV:1
Clearwater (E01K.30358)	Oakleaf green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Oaking	Oakleaf green	Bl:16-33EU/Nr:0	LMV:1
Sadawi	Oakleaf red	Bl:16-33EU/Nr:0/TBSV	
Rosalo	Lollo Rossa	Bl:16-33EU/Nr:0	
Oakleaf			
Avenir	Oakleaf green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Plezir	Oakleaf green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Bellevue	Oakleaf red	Bl:16-33EU/Nr:0/TBSV	LMV:1
Mathix	Oakleaf red	Bl:16-33EU/Nr:0/Pb/TBSV	LMV:1
Opalix (E01L.30216)	Oakleaf red	Bl:16-33EU/Nr:0/TBSV	LMV:1
Stelix (E01L.30313)	Oakleaf red	Bl:16-33EU/Nr:0/TBSV	LMV:1
Lollo			
Dabi	Lollo Bionda	Bl:16-33EU/Nr:0	LMV:1/Fol:1
Ilema	Lollo Bionda	Bl:16-33EU/Nr:0/Pb/TBSV	LMV:1/Fol:1
Azirka (E01L.30190)	Lollo Rossa	Bl:16-33EU/Nr:0/TBSV	LMV:1
Lea	Lollo Rossa	Bl:16-33EU/Nr:0	Fol:1
Loka	Lollo Rossa	Bl:16-33EU/Nr:0/TBSV	Fol:1
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Eazyleaf®			
Ezrilla (E01L.30080)	Eazyleaf green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Ezthana (E01L.30182)	Eazyleaf green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Eztron (E01L.30174)	Eazyleaf green	Bl:16-33EU/Nr:0/TBSV	LMV:1
Green Reef	Eazyleaf green	Bl:16-33EU/Nr:0/TBSV	
Hampton	Eazyleaf green	Bl:16-33EU/Nr:0/TBSV	LMV:1
E01L.30286	Eazyleaf red	Bl:16-33EU/Nr:0/TBSV	
Brentwood	Eazyleaf red	Bl:16-33EU/Nr:0	Fol:1
Buckley	Eazyleaf red	Bl:16-33EU/Nr:0/TBSV	
Ezbruke	Eazyleaf red	Bl:16-33EU/Nr:0/TBSV	LMV:1

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Explanation of used abbreviations

Lettuce	Code	English name	Scientific name pathogen ISF	Races/Strains	Level of resistance
Viruses	LMV	Lettuce mosaic	Lettuce mosaic virus	1	IR
	TBSV	Lettuce die-back	Tomato bushy stunt virus		HR
Bacteria	Ss	Corky root	Sphingomonas suberifaciens (ex Rhizomonas suberifaciens)		IR
Fungi	Bl	Downy mildew	Bremia lactucae	16-33EU	HR
	Fol	Fusarium wilt	Fusarium oxysporum f.sp. lactucae	1	IR/HR
Insects	Nr	Lettuce leaf aphid	Nasonovia ribisnigri	0	HR
	Pb	Lettuce root aphid	Pemphigus bursarius		HR