

BI:29-36,38-40

Resistance makes the difference

ENZA ZADEN



1 July 2023

The International Bremia Evaluation Board for the EU (IBEB-EU) recently announced three new races of Bremia, BI:38EU, BI:39EU, and BI:40EU. Our tests confirm that a significant portion of Enza Zaden's lettuce portfolio shows High resistance to these races. IBEB has also decided that from the 1st of July, 2023, the High resistant to BI:16-28EU races will not be claimed anymore in Europe since they are no longer agronomically relevant. This document gives you an overview of all our lettuce varieties with new Bremia BI:38EU, BI:39EU, and BI:40EU resistances.



Variety	Resistance	
	HR	IR
Batavia		
Ondriga	BI:29-36,38-40EU	Fol:4
Olana	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Flexila	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1
Ozeka	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Aveleda	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Bonalisa	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1,4
Agila	BI:29-36,38-40EU/Nr:0	LMV:1/Fol:1,4
Orane	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1,4
Equila	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1,4
Sesmaria	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1
Afabila	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1,4
Rebaila	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1,4
Babyleaf		
Kiret	BI:29-36,38-40EU/Nr:0/TBSV	
Moya	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Clearwater	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Celinet	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Butterhead		
Brighton	BI:29-36, 38-40EU	
Fakto	BI:29-36,38-40EU	
Alega	BI:29-36,38-40EU	
Festalora	BI:29-36,38-40EU/Nr:0/Pb/TBSV	LMV:1/Fol:1












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Variety	Resistance	
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Butterhead		
Vitrine 	BI:29-36,38-40EU/Nr:0/Pb/TBSV	LMV:1/Fol:1
Kraken	BI:29-36,38-40EU/Nr:0/Pb/TBSV	LMV:1
Lobetina	BI:29-36,38-40EU/Nr:0/Pb/TBSV	LMV:1
Eazyleaf		
Heathrow	BI:29-36,38-40EU	
Crispenza	BI:29-36,38-40EU/Nr:0/TBSV	
Brentwood 	BI:29-36,38-40EU/Nr:0	Fol:1
Skilton	BI:29-36,38-40EU/Nr:0	LMV:1
Iceberg		
Pelayo 	BI:29-36,38-40EU	
Buda 	BI:29-36,38-40EU/Nr:0	
Mossation	BI:29-36,38-40EU/Nr:0	
Asoka 	BI:29-36,38-40EU	
Sancho	BI:29-36,38-40EU	
Quetglas 	BI:29-36,38-40EU/Nr:0	
Greco	BI:29-36,38-40EU	
Witiza	BI:29-36,38-40EU/Nr:0	
Nolaf	BI:29-36,38-40EU/Nr:0	
Little Gem		
Alborada 	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	
Alcazaba 	BI:29-36,38-40EU/Nr:0	LMV:1/Ss
Almadraba 	BI:29-36,38-40EU/Fol:1/TBSV	LMV:1
Battlestar	BI:29-36,38-40EU/Fol:1,4/Nr:0/TBSV	LMV:1
Elizium 	BI:29-36,38-40EU/Fol:1/Nr:0/Pb/TBSV	LMV:1
Alatriste	BI:29-36,38-40EU/Fol:1,4/Nr:0/TBSV	LMV:1
Alandalus	BI:29-36,38-40EU/Fol:1/Nr:0	LMV:1
Aljona	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1
Akre	BI:29-36,38-40EU/Fol:1/Nr:0	LMV:1
Incitatos 	BI:29-36,38-40EU/Fol:1/Nr:0	LMV:1

HR: Hohe Resistenz | IR: Intermediäre Resistenz | Erläuterungen zu den Resistenzcodes finden Sie auf der letzten Seite dieses Datenblatts.

p: in Zulassungsprüfung |  Biologisches Saatgut von Vitalis verfügbar  | Aktuelle Informationen zu den Resistenzen finden Sie unter www.enzazaden.de












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Variety	Resistance	
	HR	IR
Little Gem		
Alkernia	BI:29-36,38-40EU/Fol:1/Nr:0	LMV:1/Ss
Alfonsina	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1/Ss
Akelarre	BI:29-36,38-40EU/Fol:1/Nr:0	LMV:1/Ss
Akiens	BI:29-36,38-40EU/Fol:1,4/Nr:0	LMV:1
Alpera	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1
Alfulvera	BI:29-36,38-40EU/Fol:1,4/Nr:0	LMV:1
Alfon	BI:29-36,38-40EU/Fol:1,4	LMV:1
Hampole	BI:29-36,38-40EU/Fol:1,4/Nr:0/TBSV	LMV:1
Stonsay	BI:29-36,38-40EU/Nr:0/TBSV	
Tregoney 	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	
Lollo		
Jokary	BI:29-36,38-40EU/Nr:0	
Vili	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1
Azirka 	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Mariella	BI:29-36,38-40EU/Nr:0	Fol:1
Brietta 	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1
Labiba 	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Mini Romaine		
Xalbadora 	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Ximenes 	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Xisca	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1
Xolani	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1
Xiomara 	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1
Xeruses 	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1
Airton	BI:29-36,38-40EU/Nr:0/TBSV	
Faramir 	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	
Xemerius 	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1/Ss
Hamita	BI:29-36,38-40EU/Fol:1/Nr:0/TBSV	LMV:1/Fol:4
Xamena 	BI:29-36,38-40EU/Nr:0/TBSV	LMV:1/Fol:1

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p: in Zulassungsprüfung |  Biologisches Saatgut von Vitalis verfügbar  Aktuelle Informationen zu den Resistenzen finden Sie unter www.enzazaden.de







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Variety	Resistance	
	HR	IR
Oakleaf		
Divisor	BI:29-36,38-40EU/TBSV	
Alzevir 	BI:29-36,38-40EU/Nr:0	LMV:1
Admir 	BI:29-36,38-40EU/Nr:0	LMV:1
Romaine		
Jara 	BI:29-36,38-40EU/Fol:1,4/Nr:0/TBSV	
Golia	BI:29-36,38-40EU/Fol:1/TBSV	LMV:1/Ss/Fol:4
Kilnsey	BI:29-36,38-40EU/Fol:1/Nr:0	
Iblea	BI:29-36,38-40EU/TBSV	
Scilla	BI:29-36,38-40EU/Fol:4	
Coliseum	BI:29-36,38-40EU	Ss
Carayuma	BI:29-36,38-40EU/Fol:4/Nr:0/TBSV	
Eazyleaf		
Litska 	BI:30-33,38-40EU/TBSV	
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Explanation of used abbreviations

	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	BI	Downy mildew	Bremia lactucae	29-40EU/1-9US	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

Descriptions, recommendations and illustrations in brochures and leaflets shall correspond as closely as possible to tests and practical experience and are subject to typographical and/or printing errors. This information shall be provided to assist professional growers and users, whereby variable local conditions must be taken into account. Under no circumstances shall Enza Zaden accept liability based on such information for deviating results in the cultivated product. Current information concerning the resistances is available on www.enzazaden.com. © Enza Zaden, Enkhuizen, July 2023.