

BI:29-40EU

Resistance makes the difference






1 July 2023

ENZA ZADEN





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 or Intermediate resistance to these races. IBEB has also decided that from the 1st of July, 2023, the High or Intermediate 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. For more information, please visit our website enzazaden.com



Variety	Resistance	
	HR	IR
Batavia		
Ferega 	BI:29-40EU/TBSV	
Zoraga	BI:29-40EU/TBSV	
Sereniga	BI:29-40EU/Nr:0	
Gaitera	BI:29-40EU	
Brenniga	BI:29-40EU/Nr:0	
Liboga 	BI:29-40EU	Fol:4
Salurek 	BI:29-40EU/Nr:0	Fol:4
E01A.31189	BI:29-40EU/Nr:0	
Agrela 	BI:29-40EU/Nr:0	LMV:1/Fol:4
Gylona 	BI:29-40EU/Nr:0/TBSV	LMV:1/Fol:1
Oxela	BI:29-40EU/Nr:0	LMV:1
Amaroza 	BI:29-40EU/Nr:0	LMV:1/Fol:4
Babyleaf		
Oaking 	BI:29-40EU/Nr:0	LMV:1
Diablotin 	BI:29-40EU	
Vida 	BI:29-40EU/Nr:0	
Taco	BI:29-40EU/Nr:0/TBSV	LMV:1
Cavendish	BI:29-40EU/Nr:0/TBSV	LMV:1
Preluda	BI:29-40EU/Nr:0/TBSV	LMV:1
Running	BI:29-40EU/Nr:0/TBSV	LMV:1
Tannin 	BI:29-40EU/Nr:0/TBSV	LMV:1
Alecto 	BI:29-40EU	LMV:1

HR: High Resistance | IR: Intermediate Resistance | For explanation of the codes of resistances, see the last page of this leaflet.

Varieties marked  are also available as organic seed from  | Current information concerning the resistances is available on www.enzazaden.com.

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Babyleaf		
Kailua 	BI:29-40EU/Nr:0/TBSV	LMV:1
Kinlar	BI:29-40EU/Nr:0/TBSV	LMV:1/Ss
E01K.30935	BI:29-40EU/Nr:0/TBSV	LMV:1
E01K.30939	BI:29-40EU/Nr:0/TBSV	LMV:1
Rosalo 	BI:29-40EU/Nr:0	
Greenaly	BI:29-40EU/Nr:0	
Butterhead		
Temira	BI:29-40EU	
Casey 	BI:29-40EU/Nr:0/Pb	
Bradley	BI:29-40EU/Vd:1/Nr:0/TBSV	
Marbelo 	BI:29-40EU/Nr:0	
Espelo	BI:29-40EU/TBSV	
Caneira 	BI:29-40EU/Nr:0/TBSV	
Oxmo	BI:29-40EU/Nr:0/TBSV	
Analotta 	BI:29-40EU/Nr:0	LMV:1
Aferdita 	BI:29-40EU/Nr:0	LMV:1
Ilona	BI:29-40EU/Nr:0/Pb/TBSV	LMV:1
Dicata 	BI:29-40EU/Nr:0/Pb	LMV:1
Valea 	BI:29-40EU/Nr:0	LMV:1
Basidra 	BI:29-40EU/Nr:0	LMV:1
Annare	BI:29-40EU/TBSV	
Sinisa 	BI:29-40EU/Nr:0	LMV:1
Eazyleaf		
Ezfrill 	BI:29-40EU Nr:0/TBSV	
Saralyn	BI:29-40EU/Nr:0/TBSV	
Crismina	BI:29-40EU/Nr:0	LMV:1
Buckley	BI:29-40EU/Nr:0/TBSV	
Ezflor 	BI:29-40EU/Fol:1,4/Nr:0/TBSV	
Ezbourne	BI:29-40EU/Fol:4/Nr:0/TBSV	LMV:1/Fol:1
Ezatrix	BI:29-40EU/Nr:0/TBSV	LMV:1

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	HR	IR
Iceberg		
Farito	BI:29-40EU/Nr:0	
Elmundo 	BI:29-40EU/Nr:0	
Eduardo 	BI:29-40EU/Nr:0/Pb	
Casemiro	BI:29-40EU/Nr:0	
Berruguete 	BI:29-40EU/Nr:0	
Gido	BI:29-40EU/Nr:0/Pb	
Salvio 	BI:29-40EU/Nr:0/Pb	
Mascherano	BI:29-40EU/Pb	
Rodolfo 	BI:29-40EU/Nr:0/Pb	
Napelo 	BI:29-40EU/Nr:0/Pb	
Firmino	BI:29-40EU/Pb	
Nahifa	BI:29-40EU/Nr:0	
Philemo	BI:29-40EU/Nr:0	
Cimano	BI:29-40EU/Nr:0	
Queence	BI:29-40EU/Nr:0	
Mercelo	BI:29-40EU/Nr:0	
Tence	BI:29-40EU	
Ferro	BI:29-40EU/Nr:0/Pb	
Valeriano 	BI:29-40EU/Nr:0/Pb	
Santino	BI:29-40EU/Nr:0	
Damion	BI:29-40EU	
Morrizon	BI:29-40EU/Nr:0	
Glendana	BI:29-40EU	
Ludmila	BI:29-40EU	
Kravitz 	BI:29-40EU	LMV:1
Plano 	BI:29-40EU/Nr:0/Pb	
Little Gem		
Coventry	BI:29-40EU/BI-US:1-9/Fol:1/Pb	LMV:1
Maureen 	BI:29-40EU/Fol:1,4/Pb	
Invernalía 	BI:29-40EU/Nr:0	LMV:1

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Little Gem		
Albenitez	BI:29-40EU/Nr:0/TBSV	LMV:1
Carterham	BI:29-40EU/Fol:1/Nr:0/Pb	LMV:1
Newham 	BI:29-40EU/Nr:0/Pb	LMV:1/Ss
Lollo		
Senso	BI:29-40EU/Nr:0	Fol:4
Keli	BI:29-40EU/Nr:0/TBSV	LMV:1
Akane 	BI:29-40EU/Nr:0/TBSV	
Thea 	BI:29-40EU/Nr:0	
Joba 	BI:29-40EU/Nr:0	
Latoya	BI:29-40EU/Nr:0	LMV:1
Mini Romaine		
Ovired 	BI:29-40EU/BI-US:1-9/Fol:4	Fol:1
Moonred 	BI:29-40EU/Fol:4/TBSV	LMV:1
Xanstart 	BI:29-40EU/Nr:0	LMV:1
Xoana 	BI:29-40EU/Fol:1/Nr:0/TBSV	LMV:1
Xuan	BI:29-40EU/Fol:1/Nr:0/Pb/TBSV	LMV:1
Landred 	BI:29-40EU/Fol:1,4/Nr:0/TBSV	
Oakleaf		
Rosalyn	BI:29-40EU/Nr:0/TBSV	
Boucan 	BI:29-40EU/Nr:0	
Jezero	BI:29-40EU/Nr:0	Fol:4
Arturo 	BI:29-40EU/Nr:0	
Kaskaro	BI:29-40EU/Fol:4/Nr:0	LMV:1
Mandaró	BI:29-40EU	
Animix 	BI:29-40EU/Nr:0/TBSV	LMV:1
Azerix 	BI:29-40EU/Nr:0/TBSV	LMV:1
Lenir 	BI:29-40EU/Nr:0/TBSV	LMV:1
Alonix 	BI:29-40EU/Nr:0/Pb/TBSV	

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Variety	Resistance	
	HR	IR
Romaine		
Adimar	BI:29-40EU/Fol:4/Nr:0/TBSV	LMV:1
Pandrera	BI:29-40EU/Fol:1,4/TBSV	LMV:1

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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.