



# Description of Commercial Tomato Rootstocks as of January 31, 2014

## Common Tomato Diseases and Pests and Susceptibility Characteristics

Rating rootstock characteristics is complex. For example, strains of pathogens differ and plant responses to them are rarely “yes” or “no.” Therefore, many approaches are used to rate rootstock characteristics. This table is a compilation of publicly available information provided by seed companies in catalogs and at websites. Additional information from peer-reviewed technical and scientific reports is available in the table Addendum. The table is to be updated often.

Rootstock	Bacterial Wilt	Corky Root Rot	Fusarium Wilt Race 1	Fusarium Wilt Race 2	Fusarium Crown and Root Rot	Southern Blight	Verticillium Wilt	Nematode	Tomato Mosaic Virus	Tomato Spotted Wilt Virus	Developer
61-071 RZ	S	R	R	R	R	N/A	R	R	R	N/A	Rijk Zwaan
Achilles	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Takii Seed
Aibou	S	S	R	R	R	N/A	S	R	R	N/A	Asahi Industries
Akaoni	S	S	S	S	S	N/A	S	S	R	N/A	Asahi Industries
Aligator	S	R	R	R	R	N/A	R	R	R	S	Gautier Seeds
Aloha	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Takii Seed
Anchor-T	R	S	R	R	NA	N/A	R	R	R	N/A	Takii Seed
Aooni	S	S	R	R	S	N/A	R	R	R	N/A	Asahi Industries
Arnold	R	S	R	R	R	N/A	N/A	R	R	S	Syngenta Seeds
Armada	R	R	R	R	R	R	R	R	R	R	Takii Seed
B.B.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Takii Seed
Beaufort	S	R	R	R	R	N/A	R	R	R	N/A	DeRuijter Seeds
BHN 1053	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BHN Seed
BHN 1054	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BHN Seed
BHN 998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BHN Seed
Body	S	R	S	R	N/A	N/A	R	R	R	N/A	Bruinsma Seeds
Brigeor	N/A	R	R	R	R	N/A	R	R	R	N/A	Gautier Seeds
Bruce RZ	N/A	R	R	R	R	N/A	R	S	R	N/A	Rijk Zwaan
Camel	R	S	R	R	R	N/A	R	R	R	N/A	Takii Seed

Notes: N/A – Information is **not** available      R – Resistant      S – Susceptible      For additional information on rootstock descriptions please contact developer directly.



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Cheong Gang	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Seminis Vegetable Seeds
Colosus RZ	N/A	R	R	R	R	N/A	R	R	R	N/A	Rijk Zwaan
Dai Honmei	R	R	R	S	N/A	R	R	R	R	N/A	Asahi Industries
DRO138TX	S	S	S	R	R	N/A	R	S	R	N/A	DeRuijter Seeds
Efialto	S	S	R	R	R	N/A	R	R	R	N/A	Enza Zaden
EG203	R	N/A	R	R	N/A	N/A	N/A	R	N/A	N/A	Asian Vegetable Research and Development Center
Emperador RZ	N/A	R	R	R	R	S	R	R	R	N/A	Rijk Zwaan
Enforcer	S	R	R	R	R	N/A	R	R	R	R	Nunhems Seeds
Enhancer	S	R	R	R	R	N/A	R	R	R	R	Nunhems Seeds
Enpower	S	R	R	R	R	N/A	R	R	R	R	Nunhems Seeds
Estamino	S	S	R	R	R	N/A	R	R	R	R	Enza Zaden
GCR 66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Glass House Crops Research Institute
Helper-M	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Takii Seed
Jjak Kkung	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Seminis Vegetable Seeds
Kaiser RZ	N/A	R	R	R	R	N/A	R	R	R	N/A	Rijk Zwaan
King Kong RZ	N/A	R	R	R	R	N/A	R	R	R	N/A	Rijk Zwaan

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Maxifort	S	R	R	R	R	N/A	R	R	R	N/A	DeRuijter Seeds
Multifort	S	S	R	R	S	S	S	R	S	S	DeRuijter Seeds
NCSI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DeRuijter Seeds
Resiguard	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Hazera Seeds
Resistar	S	R	S	S	S	N/A	R	S	R	N/A	Hazera Seeds
Robusta	S	R	S	R	NA	N/A	R	S	R	N/A	Bruinsma Seeds
RST-04-105-T	R	R	R	R	R	N/A	R	R	S	N/A	DP Seeds
RST-04-106-T	R	R	R	R	S	N/A	S	R	R	N/A	DP Seeds
RST-04-107-T	S	R	R	R	S	N/A	R	R	R	N/A	DP Seeds
RST-04-111-E	R	S	R	R	S	N/A	R	R	S	N/A	DP Seeds
RST-05-113-TE	R	N/A	R	R	S	N/A	R	S	S	N/A	DP Seeds
RST-04-105	R	R	R	R	R	R	R	R	S	N/A	DP Seeds
Spirit	S	R	R	R	R	N/A	R	R	R	N/A	Nunhems Seeds
Stallone RZ	R	R	R	R	R	N/A	R	S	R	N/A	Rijk Zwaan
Strong Foot	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Syngenta Seeds
Suke-San	R	S	R	R	R	N/A	R	R	R	N/A	Asahi Industries
Supernatural	S	R	R	S	R	N/A	R	R	R	N/A	Plug Connection
Survivor	R	S	R	R	NA	N/A	R	R	R	N/A	Takii Seed

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This table was developed with support provided by USDA-National Institute of Food and Agriculture (NIFA) (Specialty Crop Research Initiative Award # 2011-51181-30963; “Development of Grafting Technology to Improve Sustainability and Competitiveness of the U.S. Fruiting Vegetable Industry”), institutions participating in that project and their collaborators. Please direct questions and comments about the table to Dr. Matthew D. Kleinhenz, Dept. of Horticulture and Crop Science, The Ohio State University-OARDC.



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TOP-2001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R	N/A	N/A	BF Agritech
TOP-2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R	N/A	N/A	BF Agritech
TOP-2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R	N/A	N/A	BF Agritech
TMAA804	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sakata Seed America
TMZQ702	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sakata Seed America
TMZV802	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sakata Seed America
TMZV803	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sakata Seed America
Trooper	S	R	R	R	R	N/A	S	R	R	N/A	Seedway
Vigostar 09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Hazera Seeds
Yedi	N/A	R	R	R	R	N/A	R	R	R	N/A	Rijk Zwaan

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## Addendum

The table above was prepared using information available in public documents, specifically seed catalogs and at websites. Therefore, the information represents a summation of information available in the catalogs and at websites as provided by the supplier or developer. The information presented is not the sum total of that available on the rootstocks listed; breeders, researchers and others may have additional information on the rootstocks. All with research-based information on the rootstocks listed in the table are encouraged to submit it for inclusion in updated versions of the table and its Addendum.

- McAvoy, T. \*, M. Paret, J.H. Freeman, S. Rideout, and S.M. Olson. 2012. Evaluation of grafting using hybrid rootstocks for management of bacterial wilt in field tomato production. HortScience 47: 621-625.
- McAvoy, T. \*, M. Paret, J.H. Freeman. 2012. Managing root-knot nematode in tomato with resistant rootstocks. Phytopathology 102: S4.78.