



nunhems<sup>®</sup>

**BASF**

We create chemistry

**FLAVOR** for  
your customers.  
**FIGHT** for you.

RESISTANCE  
**RUGOSE**  
ToBRFV

WIN THE BATTLE  
AGAINST RUGOSE





# Sometimes, You Can Have It All.

Tomato Brown Rugose Fruit Virus (ToBRFV), also called Rugose, was detected for the first time in Jordan in 2014 and since then, it has spread to many of the main tomato production areas worldwide. In most countries in Europe and North America, ToBRFV has become a constant and established economic threat for growers and the whole tomato value chain.

From the early start of the Rugose (ToBRFV) outbreak, BASF has actively sought and offered solutions to growers in battling this virus together. Since providing first resistant tomato varieties in 2020, new launches with resistance against ToBRFV are continuously being developed and tested. These will cover growers' and market needs even better than before.

The Nunhems® tomato portfolio currently offers a range of ToBRFV-resistant tomato varieties. They all meet the requirements of the different levels of the agri-food value chain. Despite their vitality, productivity, and plant health, Nunhems® Rugose resistant varieties do not compromise on crucial aspects such as flavor, color, or visual appearance that more than meet today's market demands. Nunhems® Rugose resistant varieties deliver the quality and flavor your customer wants and the Rugose resistance you need. Sometimes you can have it all.

**WIN THE BATTLE** against the Rugose virus.  
**WIN THE HEARTS** of your customers.





I choose Vitalion because it combines both the best quality in the market and provides us security because of ToBRFV resistance. At Stoffels we will not compromise on taste, that is always in the lead. And with Vitalion we found a premium cherry on the vine variety which is superb in taste and appearance. We're also very pleased with the collaboration with BASF.



**Paul Stoffels**  
Stoffels Tomatoes, Belgium



## VITALION\*



### Premium, resistant – no compromises

Vitalion, the new cherry tomato on the vine is one of the most flavorful tomatoes in the industry, well-balanced variety with excellent resistance against the Rugose virus. Vitalion's taste, texture, and skin firmness exceed consumer expectations, while growers appreciate its reliably high yields, labor friendliness and the peace of mind only a resistant variety can bring you.

#### Key Benefits

- Good level of ToBRFV resistance in field trials
- High Brix levels
- Long shelf life
- High yield
- Outperforms in appearance and overall quality

#### When to Grow

J F M A M J J A S O N D

#### Variety Description

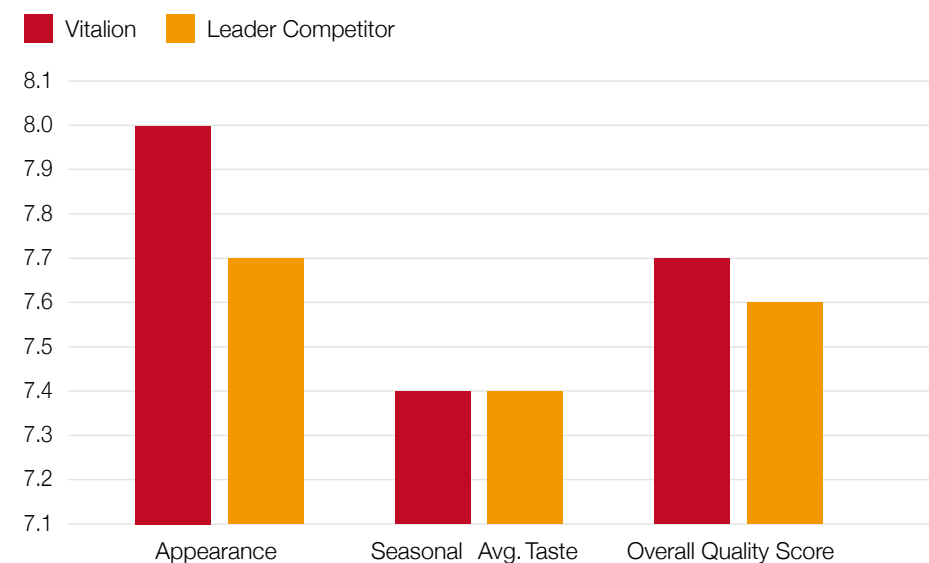
- Generative and open plant
- Average Fruit Weight: 10-13 g
- Average vigor
- Rootstock: Maxifort (or similar vigor)
- Density 4.0 – 5.0 pl/m<sup>2</sup>
- Exceptionally well adapted to lighting (HPS + Hybrid + Full LED)
- HR: Pf (A-E); ToMV (0,1,2)
- R: ToBRFV

## Data & Details

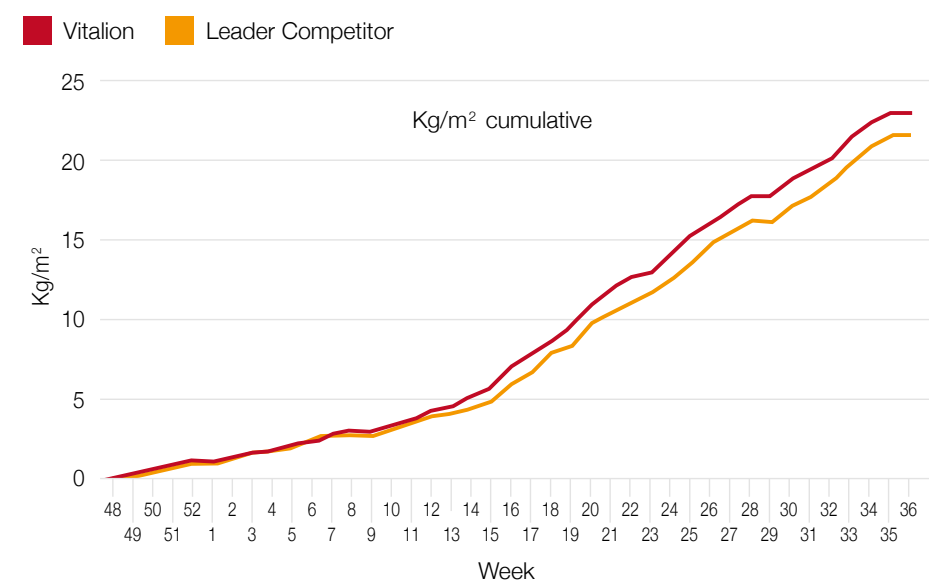
When compared to competitors, Vitalion outperformed in all key measurements.

- ✓ Outperforms in yield and appearance
- ✓ Good commercial life
- ✓ HR Resistance to Pf (A-E); ToMV (0,1,2)
- ✓ R ToBRFV

## Quality Assessment



## Overall Yield





# FLAVOR for your customers. FIGHT for you.



## CULTURION\*



### The resistant high yielder in the cherry segment

In challenging times, new standards emerge, and Culturion is set to define one. This exquisite cherry tomato, gleaming on the vine, promises enhanced profitability by combining remarkable yield with ToBRFV-resistant based reliability. Consistent fruit weight and a receptivity for double truss induction form the bedrock of a successful harvest. As for marketing strategies, the choice is yours to make - whether sold on the vine in a small or a 500g box or even loose. Its compact and level clusters ensure excellent packaging, and the firm and resilient nature of the fruit affords you the flexibility of loose picking.

#### Key Benefits

- Good level of ToBRFV resistance in field trials
- Shiny firm red fruit
- Compact fishbone structured clusters
- Good double truss induction
- Suitable for cluster and loose harvest
- Good flavor profile – WUR taste rating 7.1
- Consistently high fruit weight

#### When to Grow

J F M A M J J A S O N D

#### Variety Description

- Cherry tomato on the vine
- Strong, vigorous, and compact plant
- For lit and non-lit cultivations
- Average fruit weight 16-19 g
- For year-round cultivation
- 12-16 fruits per single truss
- HR: ToMV:0-2; Fol: 0-1EU; For; Pf: A-E;
- IR:Ma
- R: ToBRFV
- Plant is easy to keep in balance
- Rootstock: Maxifort / Kaiser or similar vigor

## MARVELLION\*



### A flavorful, red, robust Marvel

"How to make cocktail tomatoes future-proof" we asked? "Make them sweeter, ToBRFV resistant, and get rid of the mealy texture" they said. "Our response: Marvellion - the new cocktail tomato with resistance, outstanding flavor and a crunchy bite. Due to Marvellion's production speed it also has a surprisingly high yield.

#### Key Benefits

- Good level of ToBRFV resistance in field trials
- Deep red cocktail tomato
- Strong and attractive green parts
- Exceptionally high Brix and flavor level
- Firm fruit flesh
- Competitive production due to high speed
- Compact plant type

#### When to Grow

J F M A M J J A S N D

#### Variety Description

- Cocktail Tomato
- Strong, vigorous and compact plant
- For lit and non-lit cultivations
- Average fruit weight 35-40 g
- For year-round cultivation
- HR: ToMV:0-2; Fol: 0-1EU; For; Pf: A-E; Va:0EU
- R: ToBRFV
- IR: On
- Generative steering needed
- Rootstock: Maxifort / Kaiser or similar vigor

## RONVINE\*



### Yield + Quality + Resistance = Ronvine

Cluster big - no other segment is so dominated by yield. Ronvine will be your best ally in production, but also at the points of sales where quality is in demand. With its long-living deep red fruits, arranged in a strong green vine, Ronvine delivers the market needs. With its exceptionally high Brix, high yield, high quality and ToBRFV resistance Ronvine ticks all boxes in the cluster big segment.

#### Key Benefits

- Good level of ToBRFV resistance in field trials
- Deep red and shiny color fruits
- Strong and attractive green parts
- Long shelf life with firm fruits
- Competitive production
- Brix levels far above market average

#### When to Grow

J F M A M J J A S N D

#### Variety Description

- Tomato on the vine, big
- Strong and vigorous plant
- For lit and non-lit cultivations
- Average fruit weight 135-150 g
- Joint-less
- For year-round production
- HR: ToMV:0-2; Fol:0-1EU; For; Pf: A-E; Va:0EU
- R: ToBRFV
- IR: On
- Generative steering needed
- Rootstock: Maxifort / Kaiser or similar vigor





## Resistance Key:

ToBRFV: Tomato Brown Rugose Fruit Virus  
ToMV (0,1,2): Tomato Mosaic Virus  
Fol(0,1): *Fusarium oxysporum f. sp. lycopersici* (Fusarium wilt)  
For: *Fusarium oxysporum f. sp. radicis-lycopersici* (Fusarium Crown and Root Rot)  
Pf (A-E): *Passalora fulva* (Leaf mold)  
Ma: *Meloidogyne arenaria* (Root-knot)  
VA(0): *Verticillium albo-atrum* (Verticillium Wilt)  
On: *Oidium neolyopersici* (Powdery Mildew)

## Contact for more information about the assortment:

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