



## OUTSTANDING QUALITIES

- ◆ EXCELLENT DISEASE RESISTANCE, INCLUDING TSWV
- ◆ FOR WINTER PRODUCTION
- ◆ VERY HIGH YIELD POTENTIAL

**Muriel** is a vigorous saladette type tomato with a determinate growth habit and is comparable to Monica. **Muriel** has an excellent disease resistance package with high resistance against *Verticillium* wilt race 1 (Vd: 1), *Fusarium* wilt race 2 (Fol: 2) and Root-knot (Mi, Mj). Intermediate resistance against Grey leaf spot (Ss), Bacterial speck race 0 (Pst: 0), Tomato spotted wilt (TSWV) and *Alternaria* stem canker (Aal). Fruit is elongated with bright red colour and weigh 120 – 180 g.

## SPECIAL VARIETAL REQUIREMENTS

- **Muriel** can be grown on the same fertilizer programme as Monica
- Contact your area representative for more information

CHARACTERISTIC*	MURIEL
KIND	F1 hybrid saladette tomato ( <i>Lycopersicon esculentum</i> L.)
TYPE	Determinate saladette
FIRMNESS	Good
MATURITY	Medium
SEASON	All year round frost-free areas
FRUIT WEIGHT	120 - 180 g
FRUIT SHAPE	Blocky
ATTACHMENT POINT	Small, neat
FRUIT COLOUR	Fruit shoulder is very light green turning red. Excellent internal and external colour.
UNIFORMITY	Very good
LEAF COVER	Very good
DISEASE REACTION (SCIENTIFIC)	<b>High resistance:</b> <i>Verticillium dahliae</i> race 1 (Vd: 1), <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> race 2 (Fol: 2), <i>Meloidogyne incognita</i> (Mi)❖ and <i>Meloidogyne javanica</i> (Mj)❖ ❖ <b>Nematode resistance can break down when soil temperatures are above 32°C</b> <b>Intermediate resistance:</b> <i>Stemphylium solani</i> (Ss), <i>Pseudomonas syringae</i> pv. <i>tomato</i> race 0 (Pst: 0), <i>Tomato spotted wilt virus</i> (TSWV) and <i>Alternaria alternata</i> f. sp. <i>lycopersici</i> (Aal)
MARKETS / END USE	Processing and fresh market
POPULATION GUIDE	15 000 – 24 000 final stand per ha
SPECIAL FEATURES	Excellent disease package, suggested for winter production

\* Characteristics given are affected by production methods such as soil type, nutrition, planting population, planting date and climatic conditions. Please read disclaimer.

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\* **Experimental:** This variety does not appear on the current South African Variety list, but has been submitted for registration.

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## GENERAL TIPS FOR TOMATO PRODUCTION

**Muriel** is a saladette variety similar to Monica but with the added advantage of Tomato spotted wilt virus and nematode resistance.

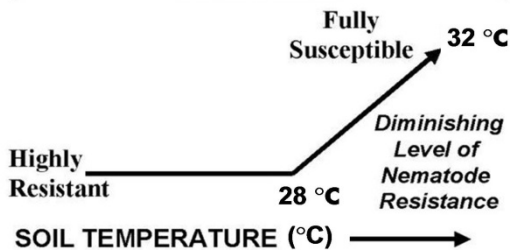
### Climatic requirements

Tomatoes can grow at a wide range of temperatures but for optimum growth, tomatoes prefer temperatures of 10 °C (minimum) - 30 °C (maximum). Tomatoes do not tolerate frost or waterlogged conditions and these should be avoided at all cost. The most sensitive stages for water and temperature stress are directly after transplanting, during the flowering stage and during the fruit development stages. Water stress during these stages of tomato development will reduce yield and quality.

### Nematode resistance

One of the most important aspects to remember when nematode resistance plays a role is that the gene for the resistance is only stable at a specific temperature range. At soil temperatures above 28 °C the resistance starts to break down, and above 32 °C soil temperature the plant would be susceptible to nematodes.

### Heat Instability of the Mi Gene in Tomato



### Green shoulder

Green shoulders on the tomato fruit is a genetic characteristic, but direct exposure to sunlight of a green shouldered fruit deepens the colour and can even turn it to yellow. Foliage cover is the best way and most effective to reduce this phenomenon. Muriel has a very light green shoulder but due to the excellent foliage cover this is seldom visible on the variety.

### Trellising

Saladette tomatoes can be trellised and the best results are obtained when it is done, because of the vigorous growth habit but is still a determinate variety and shorter poles and less labor will be used. Together with the trellising plants should ideally be grown on ridges to promote air movement and avoid water logged conditions.

### Potassium (K) deficiency

#### Symptoms

On the older leaves the leaflets are scorched with curled margins and interveinal chlorosis and small dry spots. Plant growth is restricted and leaves remain small later stages chlorosis and necrosis spreads over large area of leaves and also up plant, leaflets die back. The Fruit show blotchy, uneven ripening and greenish areas.

#### Remedy

Apply a foliar spray of 2 % potassium sulphate and add or increase the potassium sulphate or if no sodium chloride is present in the water, add potassium chloride to the nutrient solution.

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