

Eureka!™ Seedless lemon (Eureka SL™ lemon)

- Eureka SL™ lemon is owned by the Agricultural Research Council-Institute for Tropical and Subtropical Crops (ARC-ITSC), South Africa.
- Eureka SL™ lemon is protected by the Plant Breeders' Rights Act, 1976 (as amended), and unlawful propagation is not permitted (PBR No. ZA 20043010).
- Eureka SL™ lemon will be marketed under a trade name to ensure that fruit meets exceptional fruit quality specifications, and the marketing of those fruit will be coordinated by Citrogold (Pty) Ltd via a single-desk, multi-channel marketing system.

Origin and use

Eureka SL™ lemon was developed by the ARC-ITSC's mutation breeding programme in Musina, South Africa, and is the world's first truly seedless lemon variety.

Due to its unique characteristics, Eureka SL™ lemon is a novel, high-quality citrus variety that can be differentiated by the trade and identified by the consumer. In terms of consumption, Eureka SL™ has excellent potential in the food service industry for supply to restaurants and cocktail bars, as well as as a convenient alternative to conventional lemons.

Fruit Characteristics

Eureka SL™ lemon trees have similar flowering potential to Eureka lemon, and generally flower well. However, due to pollen and ovule sterility, which results in the seedless characteristic, fruit set under moderate environmental stress, i.e. hot, dry conditions, is lower for Eureka SL™ lemon than for Eureka lemon. Fruit set from the autumn bloom tends to be higher than that from the spring bloom.

Fruit size is similar to that of Eureka lemon under similar crop load conditions.

Time of maturity is earlier than that of Eureka lemon by three to six weeks, with two main bearing peaks.

Eureka SL™ lemon fruit have relatively high juice content and are totally seedless.

Tree characteristics

Eureka SL™ lemon trees have a similar growth habit to that of Eureka lemon.

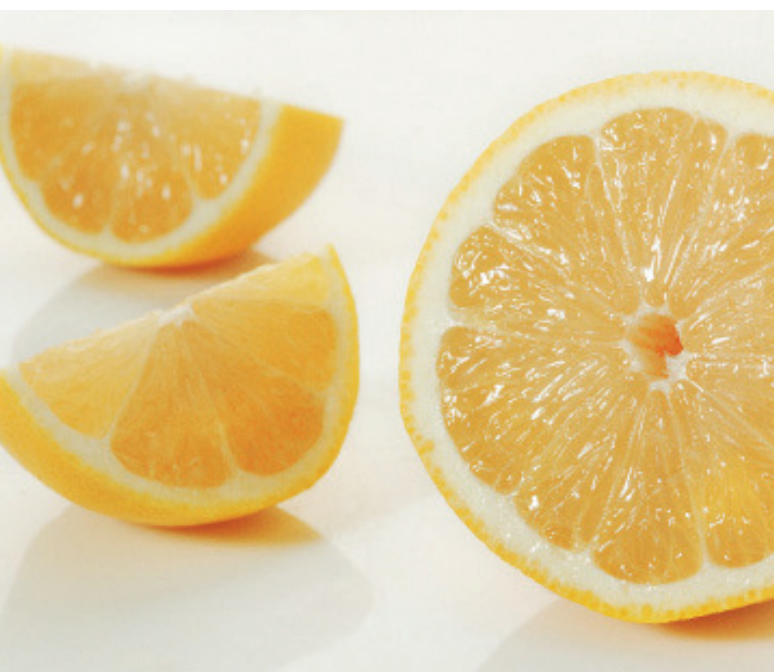
Eureka SL™ lemon trees are incompatible with most trifoliolate hybrid rootstocks, such as the citranges (Carrizo, Troyer and C35) and Swingle citrumelo.

Climate requirements

The variety is suited to cooler lemon production areas. Eureka SL™ lemon is suitable for the premium fresh fruit production regions of South Africa such as the Eastern and Western Cape.



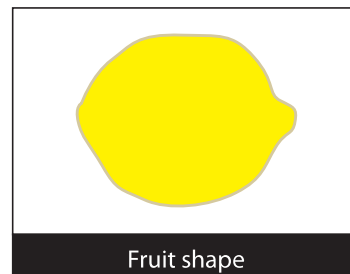
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Tree with fruit



Leaf shape



Fruit shape

Eureka!™ Seedless lemon (Eureka SL™ lemon): Technical information

Hybrid	Induced mutation of a Eureka Seedless.
Origin	Musina Experimental Station, Musina, Limpopo Province, South Africa.
Ownership	Agricultural Research Council (ARC)
Selected	1998
PBR registration	ZA 20043010
Status	Commercial

Optimum ripening date	April (Eastern Cape)
Alternate bearing or other problems	Poor fruit set in hot production regions > 3 000 heat units.
Rootstocks used in evaluation	Rough Lemon and X639

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Tree characteristics	Same growth habit as Eureka
Fruit size	Similar to larger Eureka
Fruit shape	Higher percentage of elongated fruit
External appearance	Smoother rind than Eureka
Internal appearance	Same as Eureka Lemon
Peelability	–
Seed	No seed
Flavour	–



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