



## Eureka!™ Seedless 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® will be marketed under a trade name to ensure that fruit meet exceptional fruit quality specifications, and the marketing of those fruit will be co-ordinated 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 Messina, South Africa, and is the world's first truly seedless lemon variety.

Due to its unique characteristics, Eureka SL® 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 a convenient alternative to conventional lemons.

### Fruit Characteristics

Eureka SL® lemon trees have similar flowering potential as 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 similar to that of Eureka lemon.

Eureka SL® 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.

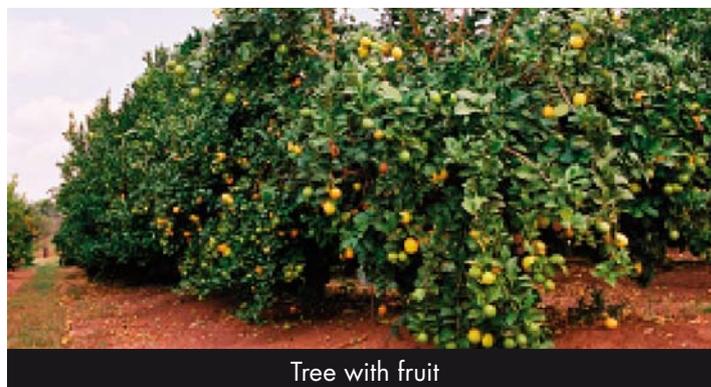
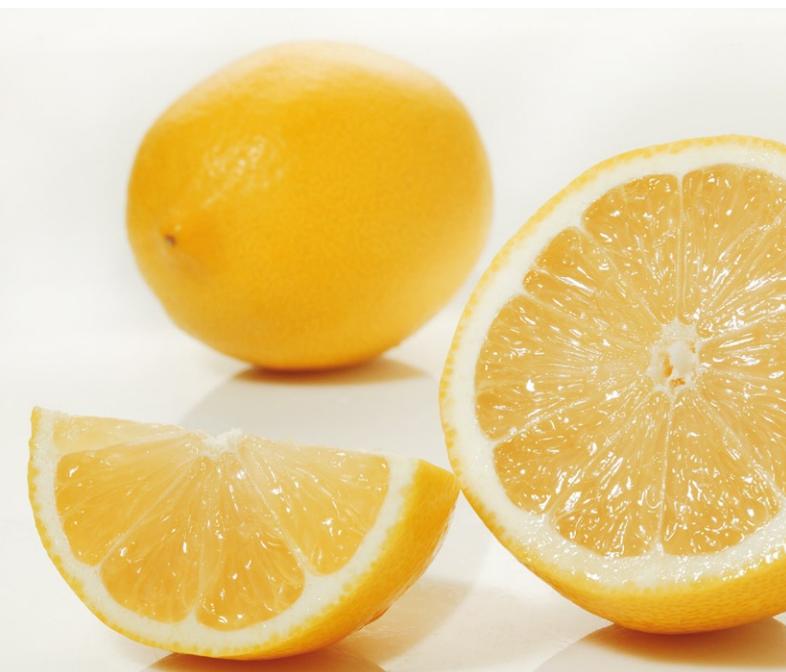
Eureka SL® lemons trees are incompatible with most trifoliolate hybrid rootstocks, such as the citranges (Carrizo, Troyer and C35) and Swingle citrumelo.

### Climate requirements

Variety is suited to cooler common production areas. Eureka SL® is suitable for the premium fresh fruit production regions of South Africa such as the Eastern and Western Cape.



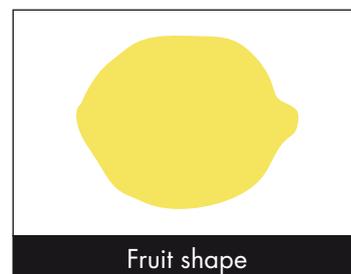
CITROGOLD



Tree with fruit



Leaf shape



Fruit shape

## Eureka!™ Seedless Lemon (Eureka SL® Lemon) – Technical information

<b>Hybrid</b>	Induced mutation of a Eureka Seedless.
<b>Origin</b>	Musina Experimental station, Musina, Limpopo Province, South Africa.
<b>Ownership</b>	Agricultural Research Council (ARC)
<b>Selected</b>	In 1998
<b>PBR registration</b>	ZA 20043010

Internal quality tests				
Test date	Juice %	Brix°	T.Acid %	Brix / TA Ratio
	> 55%			

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

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<b>Tree characteristics</b>	Same growth habit as Eureka.
<b>Fruit size</b>	Same as Eureka.
<b>Fruit shape</b>	Higher percentage of elongated fruit.
<b>External appearance</b>	Smoother rind than Eureka
<b>Internal appearance</b>	Same as Eureka Lemon.
<b>Peelability</b>	–
<b>Seed</b>	No seed
<b>Flavour</b>	–



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