



M7 – early maturing navel

- M7 is a very early maturing navel.
- Orange full colour of mutation first noticed when Navelina was light green on 2 May 2004
- Advanced colour around four weeks earlier than Navelina
- Very high brix 13.07 when Navelina was 9.94 on 18 May 2004
- Certified by Auscitrus to be free of any viruses in March 2006.

Origin and use

Mutation discovered in Autumn 2004 on a Navelina (clone 7.5) tree in the orchard of Chislett Developments Pty Ltd, Kenley, Victoria, Australia.

Fruit Characteristics

Round fruit with medium to small navel size, similar to Navelina. Distinctive navel with slight lines radiating outwards.

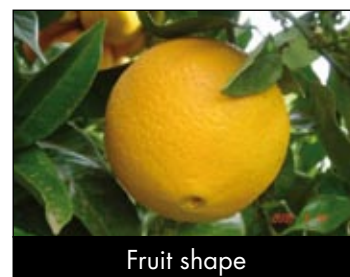
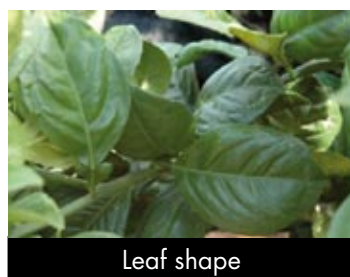
Tree characteristics

More upright and open than Navelina allowing more light penetration and facilitating colour development. Less pruning needs.

Photograph above centre shows mother tree with limb sport – note colour difference on M7.

Climate requirements

Best suited to cooler navel production areas



M7 – early maturing navel: Technical information

Hybrid	Natural mutation
Origin	Kenley, Victoria, Australia.
Ownership	Chislett Developments Pty Ltd
Selected	2004
PBR registration	Australia – PBR 2005/185 EUPBR Application Registration Number 2007475 Republic of South Africa – PT5936 USA – Plant Patent US PP 18,774P2

Internal quality tests (Mildura Fruit Company)				
Test date	Juice %	Brix°	T.Acid %	Brix/TA Ratio
07/04/09	43	10.64	1.16	9.13
17/04/09	48	11.86	1.18	11.86
13/05/09	41	11.60	1.02	11.33
03/06/09	40	11.10	1.03	10.78
25/06/09	40	12.96	0.83	15.58

Optimum peak ripening date	Extended harvest period – at least 4 months from April (Oct) to July (Jan)
Alternate bearing or other problems	Cropping characteristics similar to Navelina
Rootstocks used in evaluation	Good compatibility with all rootstocks

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Tree characteristics	Very vigorous tree. Fast growing and early cropping. Potentially good production based on mutation limb. 4 to 14 fruits per frame (0.5x0.5x0.5m)
Leaf shape	Length to width ratio significantly lower and petiole wing more pronounced compared to Navelina. Leaf also has a distinctive undulation.
Fruit size	Good fruit size, probably better than Navelina
Fruit shape	Completely round fruit shape and distinctive navel end marks
External appearance	Medium to small navel size and similar to Navelina. Distinctive with slight lines radiating outwards from the navel.
Internal appearance	Small internal navel. Potentially good juicing yields More advanced and intense flesh colour than Navelina Limonin levels to be determined and expected to be relatively low like Navelina
Peelability	No sign of albedo breakdown ever observed. Firmer rind than Navelina throughout harvesting period.
Seed	Nil
Flavour	Exceptional eating quality due to high brix (brix often above 13°) and higher brix/acid ratio than Navelina.

