



## 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 required.

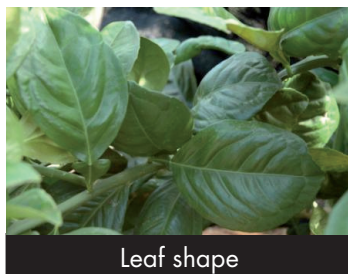
Photograph above centre shows a mother tree with limb sport – note colour difference on M7.

### Climate requirements

Best suited to cooler navel production areas.



Tree with fruit



Leaf shape



Fruit shape

## M7 – early maturing navel: Technical information

<b>Hybrid</b>	Natural mutation in a Navelina orchard
<b>Origin</b>	Kenley, Victoria, Australia.
<b>Ownership</b>	Chislett Developments Pty Ltd
<b>Selected</b>	2004
<b>PBR registration</b>	Australia – PBR 2005/185 EU PBR Application Registration Number 2007475 Republic of South Africa – ZA20135427 USA – Plant Patent US PP 18,774P2
<b>Status</b>	Experimental

Internal quality tests (Mildura Fruit Company)				
Test date	Juice %	Brix°	Acid %	Brix/Acid 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

<b>Ripening period</b>	Extended harvesting period of 4 months from March to June. Colour development noted to be at least 2 weeks earlier than Navelina.
<b>Alternate bearing or other problems</b>	None noted so far
<b>Rootstocks used in evaluation</b>	Carrizo citrange

<b>Tree characteristics</b>	Vigorous and precocious
<b>Leaf shape</b>	Length to width ratio significantly lower and petiole wing more pronounced compared to Navelina. Leaf also has a distinctive undulation.
<b>Fruit size</b>	Good fruit size, better than Navelina
<b>Fruit shape</b>	Round
<b>External appearance</b>	Small to medium navel size, similar to Navelina. Slight lines radiating outwards from the navel.
<b>Internal appearance</b>	Small internal navel. More advanced and intense flesh colour than Navelina
<b>Peelability</b>	Similar to Navelina.
<b>Seed</b>	Nil
<b>Flavour</b>	Exceptional eating quality due to a good balance high brix° and acid (brix often above 13°) and higher brix/acid ratio than Navelina.

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