



**CPVO**

Community Plant Variety Office

## DISCLAIMER

The present version of the national guideline has been accepted by the President of the CPVO for its use in technical examinations carried out on behalf of the CPVO or for the take-over of reports serving as a basis for a CPVO decision.

**Crassula**  
**National protocol: NP/CSL/2**

Examination office	Naktuinbouw
Reference of the protocol	NP/CSL/2
Date of preparation of the protocol	05-12-2022
Date of entry into force of the protocol	31-03-2022
Botanical taxon:	<p>Crassula L.</p> <p>Crassula arborescens (Mill.) Willd</p> <p>Crassula mesembryanthoides (Haw.) D. Dietr.</p> <p>Crassula mesembryanthoides (Haw.) D. Dietr. x Crassula rupestris Thunb.</p> <p>Crassula muscosa L.</p> <p>Crassula nudicaulis L.</p> <p>Crassula nudicaulis L. x Crassula perfoliata L. var. minor (Haw.) G. D. Rowley</p> <p>Crassula ovata (Mill.) Druce</p> <p>Crassula pubescens Thunb.</p> <p>Crassula schmidtii Regel</p> <p>Crassula swaziensis Schönland</p>
Common Name (when known):	Crassula
Way of propagation of the plants to be examined	<p>Self or cross pollinated seed propagated <input type="checkbox"/></p> <p>Vegetatively propagated <input checked="" type="checkbox"/></p>
Number of growing cycles:	<p>1 <input checked="" type="checkbox"/></p> <p>2 <input type="checkbox"/></p> <p>Other <input type="checkbox"/> specify <a href="#">Click or tap here to enter text.</a></p>
List of grouping characteristics	<p>Yes <input checked="" type="checkbox"/> if yes put as annex</p> <p>No <input type="checkbox"/></p>

Minimum number of plants in trial	Vegetative: 20	Seed: -
Minimum number of plants observed by measuring or counting:	Vegetative: 1	Seed: -
Give description of when observations should take place	<p>Observation of the leaf should take place: after 6 months of growing in the test facility.</p> <p>Other observations should take place: after 6 months of growing in the test facility.</p>	
<p>Uniformity:</p> <ul style="list-style-type: none"> <li>- For the assessment of uniformity of vegetatively propagated, self-pollinated seed propagated varieties or F1-hybrids, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 1 off-types are allowed.</li> <li>- For the assessment of uniformity for cross-pollinated varieties, the recommendations for cross-pollinated varieties in the General introduction of UPOV should be applied. The variability within the variety should not exceed the variability of comparable varieties already known.</li> </ul>		
Table of characteristics	<p>Present <input checked="" type="checkbox"/></p> <p>Not available <input type="checkbox"/></p>	
Literature (when present, please annex to this document)	<p>Present <input checked="" type="checkbox"/></p> <p>Absent <input type="checkbox"/></p>	

**Table of Characteristics Crassula**

1. Plant: height	short	3	Money maker
	medium	5	
	tall	7	
2. Plant: width	narrow	3	Ovcras03 Money maker
	medium	5	
	broad	7	
3. Plant: branching	absent	1	Frodo
	present	9	
4. Plant: number of leaves	few	3	Money maker Dacamelod
	medium	5	
	many	7	
5. Plant: growth habit	pendulous	1	Odessa
	Semi-erect	2	
	erect	3	
6. Plant: pubescence	absent	1	Minova Magic Delta
	Present	9	
7. Stem: length	short	3	Tenelli
	medium	5	
	long	7	
8. Stem: diameter at base	narrow	3	Odessa Crasmada Ovcras03
	Medium	5	
	Wide	7	
9. Stem: length of internodes	short	3	Money maker Delta Ovcras03
	Medium	5	
	long	7	
10. Stem: colour	light green	1	Money maker Magical Crasmada
	medium green	2	
	dark green	3	
	light grey green	4	
11. Stem: presence of lignification	absent	1	Tenelli Sunset Magic
	Present	9	
12. Stem: profile in cross section	square	1	Decamelod Tenelli
	Round	2	
13. Stem: anthocyanin colouration	absent	1	Tenelli Odessa
	Present	9	
14. Leaf: attachment	sessile	1	Magical
	Petiolate	2	
15. Leaf: arrangement	alternate	1	Odessa Delta Magical Dacamelod
	opposite	2	
	decussate	3	
	ad pressed	4	
16. Leaf: length	short	3	Delta Red monstrosa
	medium	5	
	long	7	
17. Leaf: width	narrow	3	Delta Magical Frodo
	medium	5	
	broad	7	
18. Leaf: thickness	thin	3	Minova Magic Sunset Magic
	medium	5	
	thick	7	
19. Leaf: number of colours	one	1	Money Maker Crasmada Sunset Magic
	two	2	
	three	3	
20. Leaf: green colour of upper side	RHS colour chart (indicate reference number)		
21. Leaf: secondary colour of upper side	RHS colour chart (indicate reference number)		
22. Leaf: third colour of upper side	RHS colour chart (indicate reference number)		
23. Leaf: green colour of lower side	RHS colour chart (indicate reference number)		

24. Leaf: presence of red or red-brown margin	absent present	1 9	Dacamelod Crasmada
25. Leaf: shape	oblong triangular narrow ovate ovate broad ovate elliptic broad obovate obovate narrow obovate	1 2 3 4 5 6 7 8 9	Red monstrosa Dacamelod  Magical Ovcras03 Odessa Minova Magic Money maker
26. Leaf: presence of thickened leaf	absent present	1 9	
<b>27. Varieties with thickened leaves only</b> Leaf: profile in cross-section	concave concave to straight straight straight to convex convex	1 2 3 4 5	Tenelli  Sunset Magic
<b>28. Varieties with non-thickened leaves only</b> Leaf: profile in cross-section	concave concave to straight straight straight to convex convex rolled	1 2 3 4 5 6	Red monstrosa
29. Leaf: profile in longitudinal section	incurved incurved to straight straight straight to recurved recurved twisted	1 2 3 4 5 6	Money maker  Crasmada
30. Leaf: pubescence	absent present	1 9	Money maker Tenelli
31. Leaf: shape of margin	smooth undulate	1 9	Money maker
32. Leaf: shape of apex	mucronate acute obtuse rounded almost right angle	1 2 3 4 5	Frodo Delta Money maker Magical Minova Magic
33. Inflorescence: length	short medium tall	3 5 7	Delta
34. Inflorescence: width	narrow medium broad	1 5 6	
35. Inflorescence: number of flowers	few medium many	1 2 3	Tenelli Delta
36. Pedicel: length	short short to medium medium medium to long long	1 2 3 4 5	Delta  Money maker
37. Pedicel: diameter	narrow Medium Broad	1 2 3	Delta Tenelli
38. Calyx: colour	light green green	1 2	Delta

	dark green	3	Tenelli
39. Corolla: diameter	narrow	3	
	medium	5	
	broad	7	
40. Corolla: height	short	1	
	medium	5	
	tall	7	
41. Corolla: main colour of upper side	RHS colour chart (indicate reference number)		
42. Corolla: main colour of lower side	RHS colour chart (indicate reference number)		
43. Filament: length	short	1	
	medium	2	Delta
	long	3	Tenelli
44. Filament: colour	white	1	Delta
	light green	2	Tenelli
	red purple	3	
45. Anther: colour	yellow	1	Tenelli
	dark brown	2	Delta
46. Style: colour	light green	1	Delta
	light green to green	2	
	green	3	Tenelli
	green to dark green	4	
	dark green	5	
47. Stigma: colour	white	1	Delta
	light green	2	Money maker
Literature: Dictionary of Gardening: The Royal Horticultural Society Hortica: A.B.Graf Hortica, A.B. Graf			