



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/1

Botanical taxon:	Crassula L.	
Common Name (when known):	Crassula	
Botanical taxon:	Crassula arborescens (Mill.) Willd	
Common name:	Crassula	
Botanical taxon:	Crassula arborescens subsp. undulatifolia Toelken	
Common name:	Crassula	
Botanical taxon:	Crassula mesembryanthoides (Haw.) D. Dietr.	
Common name:	Crassula	
Botanical taxon:	Crassula muscosa L.	
Common name:	Toy-cypress, watch-chain	
Botanical taxon:	Crassula ovata (Mill.) Druce	
Common name:	Jade-plant	
Botanical name:	Crassula pubescens Thunb.	
Common name:	Jersey pigmyweed	
Botanical taxon:	Crassula schmidtii regel.	
Common name:	Crassula	
Botanical name:	Crassula swaziensis Schönland	
Common name:	Crassula	
Date of preparation of NP:	16-10-2011	
Date of revision of NP:	01-01-2020	
NP revised by:	G. van de Wardt	
Sample to be examined:	VEGETATIVE.	
Number of growing cycles:	1 year	
Closing date for applications:	01-12	
Submission date/period:	1/3 - 31/3	
Plant Quantity:	24 young plants, Able to show all their characteristics in the first year of technical examination.	
Special conditions sample:	None	
Test station address:	Naktuinbouw, Sotaweg 22, 2371 AA, Roelofarendsveen	
Name:	Team Support Variety Testing Department	
E-mail:	teamsupport@rasraad.nl	
List of grouping characteristics:	NO, (if yes put as annex)	
Minimum number of plants in trial:	Vegetative: 9	Seed: not appl.
Minimum number of plants observed by measuring or counting:	Vegetative: 1	Seed: not appl.
Give description of when/where observations on the leaf should take place:	After app. 6 months development	
Give description of when/where observations on the flower should take place:	At full flowering	
Give description of when/where the other observations should take place:	After app. 6 months development	

Test will take place: GREENHOUSE

Uniformity: A population standard of 1% with an acceptance probability of at least 95%.

Number of off-types allowed: one off-type allowed in a sample size of 24 plants.

Table of characteristics: PRESENT (see annex)
(if present, please annex the table of characteristics and explanations)

Literature: PRESENT
(when present, please annex to this document)

Table of Characteristics Crassula

1.	Plant: height		
cm	short	Money maker	3
	medium		5
	tall		7
2.	Plant: width		
cm	narrow		3
	medium	Ovcras03	5
	broad	Money Maker	7
3.	Plant: branching		
	absent		1
	present	Frodo	9
4.	Plant: number of leaves		
	few		3
	medium	Money Maker	5
	many	Dacamelod	7
5.	Plant: growth habit		
	pendulous	Odessa	1
	semi-erect		2
	erect	Delta	3
6.	Plant: pubescence		
	absent	Minova Magic	1
	present	Delta	9
7.	Stem: length		
cm	short	Tenelli	3
	medium		5
	long		7
8.	Stem: diameter at base		
m	narrow	Odessa	3
m	medium	Crasmada	5
	wide	Ovcras03	7
9.	Stem: length of internodes		
m	short	Money Maker	3
m	medium	Delta	5
	long	Ovcras03	7
10.	Stem: colour		
	light green	Money Maker	1
	medium green	Magical	2
	dark green		3
	light grey green	Crasmada	4
11.	Stem: presence of lignification		
	absent	Tenelli	1
	present	Sunset Magic	9

12.	Stem: profile in cross section		
	square	Dacamelod	1
	round	Tenelli	2
13.	Stem: anthocyanin coloration		
	absent	Tenelli	1
	present	Odessa	9
14.	Leaf: attachment		
	sessile	Magical	1
	petiolate		2
15.	Leaf: arrangement		
	alternate	Odessa	1
	opposite	Delta	2
	decussate	Magical	3
	ad pressed	Dacamelod	4
16.	Leaf: length		
	short		3
	medium	Delta	5
	long	Red Monstruosa	7
17.	Leaf: width		
	narrow	Delta	3
	medium	Magical	5
	broad	Frodo	7
18.	Leaf: thickness		
	thin		3
	medium	Minova Magic	5
	thick	Sunset Magic	7
19.	Leaf: number of colours		
	one	Money Maker	1
	two	Crasmada	2
	three	Sunset Magic	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	Dacamelod	1
	present	Crasmada	9
25.	Leaf: shape		
	oblong	Red Monstruosa	1
	triangular	Dacamelod	2
	narrow ovate		3
	ovate		4
	broad ovate	Magical	5
	elliptic	Ovcras03	6
	broad obovate	Odessa	7
	obovate	Minova Magic	8
	narrow obovate	Money Maker	9
26.	Leaf: presence of thickened leaves		
	absent		1
	present	Sunset magic	9
27.	Leaf: <u>varieties with thickened leaves present only</u>: profile in cross section		
	concave		1
	concave to straight		2
	straight	Tenelli	3
	straight to convex		4
	convex	Sunset Magic	5
28.	Leaf: <u>varieties with non-thickened leaves only</u>: profile in cross section		
	concave		1
	concave to straight		2
	straight		3
	straight to convex		4
	convex		5
	rolled	Red Monstruosa	6
29.	Leaf: profile in longitudinal section		
	incurved		1
	incurved to straight	Money Maker	2
	straight		3
	straight to recurve		4
	recurved		5
	twisted	Crasmada	6
30.	Leaf: pubescence		

	absent	Money Maker	1
	present	Tenelli	9
31.	Leaf: shape of margin		
	smooth	Money Maker	1
	undulate		9
32.	Leaf: shape of apex		
	mucronate	Frodo	1
	acute	Delta	2
	obtuse	Money maker	3
	rounded	Magical	4
	almost right angle	Minova Magic	5
33.	Inflorescence: length		
m	short		3
m	medium	Delta	5
	tall		7
34.	Inflorescence: width		
m	narrow		3
m	medium		5
	broad		7
35.	Inflorescence: number of flowers		
	few	Tenelli	1
	medium	Delta	2
	many		3
36.	Pedice l: length		
m	short	Delta	1
m	short to medium		2
	medium		3
	medium to long	Money Maker	4
	long		5
37.	Pedice l: diameter		
m	narrow		1
m	medium	Delta	2
	broad	Tenelli	3
38.	Calyx: colour		
	light green	Delta	1
	green		2
	dark green	Tenelli	3
39.	Corolla: diameter		
m	narrow		3
m	medium		5
	broad		7

40.	Corolla: height		
m	short		3
m	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		
m	short		1
m	medium	Delta	2
	long	Tenelli	3
44.	Filament: colour		
	white	Delta	1
	light green	Tenelli	2
	red purple		3
45.	Anther: colour		
	yellow	Tenelli	1
	dark brown	Delta	2
46.	Style: colour		
	light green	Delta	1
	light green to green		2
	green	Tenelli	3
	green to dark green		4
	dark green		5
47.	Stigma: colour		
	white	Delta	1
	light green	Money Maker	2

Literature:

Dictionary of Gardening: The Royal Horticultural Society
Hortica, A.B. Graf