

## 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.

**Eryngium L.**  
**Eryngium planum L.**  
**Eryngium alpinum L.**  
**Eryngium x zabelii H. Christ ex Bergmans (E. alpinum x E. bourgatii)**  
**National protocol: NP/DKR/2.rev**

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Botanical taxon: Eryngium L., Eryngium planum L.,  
Eryngium alpinum L.,  
Eryngium x zabelii H. Christ ex Bergmans  
(E. alpinum x E. bourgatii)

Common Name (when known): Sea Holly

Date of preparation of NP: 2018

Date of revision of NP: 01-01-2020

NP data prepared by: W.A. Wietsma

Sample to be examined: VEGETATIVE

Number of foreseen growing cycles: 1 year

Closing date for applications: 15/06

Submission date/period: 15/08 – 15/09

Plant Quantity: 24 young plants, appropriate to be grown in the  
open and show all the characteristics in the first  
year of 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](mailto:teamsupport@rasraad.nl)

List of grouping characteristics: NO, (if yes put as annex)

Minimum number of plants in trial: Vegetative: 20                      Seed: not appl.

Minimum number of plants observed  
by measuring or counting: Vegetative: 1                                      Seed: not appl.

Give description of when observations on the flower should take place:  
At full flowering

Give description of when/where observations on the leaf should take place:  
At full flowering

Give description of when/where the other observations should take place:  
At full flowering

Test will take place: OUTDOOR

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 20

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

Literature: PRESENT (see annex)

**Table of characteristics Eryngium**

|  |  |     |                 |
|--|--|-----|-----------------|
| 1. Plant: height<br>(incl. peduncle)                   | low  | (3) | Eptj            |
|  | medium                                       | (5) | Epnd 13         |
|  | high   | (7) | Kolmaros        |
| 2. Petiole: length                                     | short  | (3) | Jewel Stone     |
|  | medium                                       | (5) | Dekostar        |
|  | long   | (7) | Kolmaros        |
| 3. Petiole: colour                                     | light green                                  | (3) | Dekostar        |
|  | medium green                                 | (5) | Eptj            |
|  | dark green                                   | (7) |                 |
| 4. Petiole: anthocyanin<br>coloration                  | absent                                       | (1) | Eptj            |
|  | present                                      | (9) | Kolmapufa       |
| 5. Petiole: intensity of<br>anthocyanin coloration     | weak   | (3) |                 |
|  | medium                                       | (5) | Kolmapufa       |
|  | strong                                       | (7) |                 |
| 6. Leaf blade: length                                  | short  | (3) | Jewel Stone     |
|  | medium                                       | (5) | Kolmaros        |
|  | long   | (7) | Vega            |
| 7. Leaf blade: width                                   | narrow                                       | (3) | Eptj            |
|  | medium                                       | (5) | Dekostar        |
|  | broad  | (7) | Arabian Dawn    |
| 8. Leaf blade: shape                                   | ovate  | (1) | Kolmapufa       |
|  | broad ovate                                  | (2) | Amazing Jackpot |
|  | ovate to broad ovate                         | (3) | Eptj            |
|  | elliptic                                     | (4) | White Star      |
|  | broad elliptic                               | (5) | Jade Frost      |
|  | obovate                                      | (6) | Neptune's Gold  |
| 9. Leaf blade: variegation                             | absent                                       | (1) | Kolmaros        |
|  | present                                      | (9) | Neptunes Gold   |
| 10. Leaf: colour 1 of upper<br>side                    | RHS Colour Chart (indicate reference number) |     |                 |
| 11. Leaf blade: area of colour 1                       |  |     |                 |
| 12. Leaf blade: colour 2 of<br>upper side              | RHS Colour Chart (indicate reference number) |     |                 |
| 13. Leaf blade: area of colour 2                       |  |     |                 |
| 14. Leaf blade: colour 3 of<br>upper side              | RHS Colour Chart (indicate reference number) |     |                 |
| 15. Leaf blade: area of colour 3                       |  |     |                 |
| 16. Leaf blade: anthocyanin<br>coloration              | absent                                       | (1) | Neptunes Gold   |
|  | present                                      | (9) | Myers Blue      |
| 17. Leaf blade: intensity of<br>anthocyanin coloration | weak   | (3) | Myers Blue      |
|  | medium                                       | (5) |                 |
|  | strong                                       | (7) |                 |
| 18. Leaf blade: firmness                               | absent                                       | (1) | White Star      |
|  | present                                      | (9) | Neptunes Gold   |
| 19. Leaf blade: firmness of<br>prickles                | soft   | (1) | Dekostar        |
|  | hard   | (2) | Neptunes Gold   |
| 20. Peduncle: height branching<br>upwards              | low  | (3) | Epnd 13         |
|  | medium                                       | (5) | Kolmaros        |
|  | high   | (7) | Kolmbufa        |

|   |   |                   |   |
|---|---|-------------------|---|
| 21. Peduncle: main branch: colour at base   | light green<br>medium green<br>dark green | (3)<br>(5)<br>(7) | Kolmaros<br>Eptj                                  |
| 22. Peduncle: main branch anthocyanin coloration at base                                | absent<br>present                         | (1)<br>(9)        | Kolmaros<br>Epdn 13                               |
| 23. Peduncle: main branch: intensity of anthocyanin at base                             | weak<br>medium<br>strong                  | (3)<br>(5)<br>(7) | Kolmbufa<br>Epdn 13                               |
| 24. Peduncle: main branch: anthocyanin coloration distal half                           | absent<br>present                         | (1)<br>(9)        | Epdn 13   |
| 25. Peduncle: main branch: intensity of anthocyanin coloration distal half              | weak<br>medium<br>strong                  | (3)<br>(5)<br>(7) | Eptj<br>Kolmaros<br>Kolmbufa                      |
| 26. Peduncle: side branches: anthocyanin coloration                                     | absent<br>present                         | (1)<br>(9)        | Mijers Blue                                       |
| 27. Peduncle: side branches: intensity of anthocyanin coloration                        | weak<br>medium<br>strong                  | (3)<br>(5)<br>(7) | Eptj<br>Mijers Blue<br>Kolmbufa                   |
| 28. Cauline leaves: petiole: length   | short<br>medium<br>long                   | (3)<br>(5)<br>(7) | Epdn 13<br>Neptunes Gold                          |
| 29. Cauline leaves: variegation   | absent<br>present                         | (1)<br>(9)        | Kolmaros<br>Neptunes Gold                         |
| 30. Cauline leaves: colour 1 of RHS Colour Chart (indicate reference number) upper side |   |                   |   |
| 31. Cauline leaves: area of colour 1  |   |                   |   |
| 32. Cauline leaves: colour 2 of RHS Colour Chart (indicate reference number) upper side |   |                   |   |
| 33. Cauline leaves: area of colour 2  |   |                   |   |
| 34. Cauline leaves: colour 3 of RHS Colour Chart (indicate reference number) upper side |   |                   |   |
| 35. Cauline leaves: area of colour 3  |   |                   |   |
| 36. Cauline leaves: anthocyanin coloration  | absent<br>present                         | (1)<br>(9)        | Mijers Blue                                       |
| 37. Cauline leaves: intensity of anthocyanin coloration                                 | weak<br>medium<br>strong                  | (3)<br>(5)<br>(7) | Epdn 13<br>Mijers Blue                            |
| 38. Cauline leaves: prickles  | absent<br>present                         | (1)<br>(9)        | Epdn 13   |
| 39. Cauline leaves: firmness of prickles  | soft<br>hard                              | (1)<br>(2)        | Kolmapufa<br>Epdn 13                              |
| 40. Capitulum: length   | short<br>medium<br>long                   | (3)<br>(5)<br>(7) | Little Blue Wonder<br>Double Jackpot<br>Kolmanita |
| 41. Capitulum: width  | narrow<br>medium<br>broad                 | (3)<br>(5)<br>(7) | Little Blue Wonder<br>Aquarius<br>Kolmapufa       |

|   |  |     |              |
|---|--|-----|--------------|
| 42. Capitulum: shape  | ovoid  | (1) | Kolmaros     |
|   | ovoid to broad ovoid                         | (2) | Aquarius     |
|   | broad ovoid                                  | (3) | Allmonday    |
|   | conical                                      | (4) | Epnd 13      |
| 43. Involucre: diameter<br>cross-section  | small  | (3) | Kolmapufa    |
|   | medium                                       | (5) | Meijers Blue |
|   | large  | (7) | Kolmanita    |
| 44. Involucre: colour of<br>upper side  | RHS Colour Chart (indicate reference number) |     |              |
| 45. Involucre: colour of lower side   |  |     |              |
| 46. Periant: colour   |  |     |              |
| 47. Anthers: colour   |  |     |              |
| Literature: Atrium tuinplanten encyclopedie: C. Brickell<br>The Encyclopedia of Garden Flowers: K&G Bryant<br>Encyclopedia of Garden Plants and Flower: Lance Hattate<br>Dictionary of Gardening: The Royal Horticultural Society Hortica: A.B.Graf |  |     |              |