

TABLE S1. Qualitative characteristics of the *S. rosmarinifolia* L. aggregate. For taxon codes see Table 1.

| Characteristics | |
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| Plant colour | Plant usually bright dark-green or with yellowish-green flowering stems and dark-green leaves, sterile stems and leaves of the sterile stems usually greyish-glaucous or dark-green (ROS), plant, usually with bright olive-green or yellowish-green stems with bright olive-green leaves (ARR), green or green to reddish-brown (MEL), bright olive-green (CAN, IMP, SEM, PEC-18, PEC-36), bright olive-green or bright dark-green on occasion with the vegetative stems glaucous (HET), olive-green or olive green to brown-red in occasion with the vegetative stems glaucous (AGE), glaucous (OBL), bright dark-green or glaucous (ROB) |
| Plant indument | Glabrous (ROS, ARR 69.09%, AGE, ROB 26.81%), tomentose (ARR 30.91%, ROB 22.83%, CAN, SEM, IMP, PEC-18, PEC-36), glabrescent (MEL), tomentose or tomentose-to-glabrescent (HET), sericeous (OBL, ROB 50.36%) |
| Plant habit | Decumbent with variable flowering stems at individual level: ascending, erect-patent and erect (ROS, ARR, HET, CAN, SEM, IMP, PEC-18, PEC-36, OBL, ROB), decumbent-rooting, thickly perennial woody basal stems (70.97% of the individuals from the Ródenas population: AGE) or decumbent-rooting and ascending with scarce lignification (29.03% of the individuals from the San Ginés population: AGE), procumbent with flowering stems patent and divergent (MEL) |
| Flowering stems | Fragile and not solid near the insertion with the capitulum (ROS, ARR, ROB 41.66%), fragile and usually solid (HET 94.12%, CAN 97.04%), fragile and not solid (ROB 58.33%), fragile near the base and not solid near the insertion with the capitulum (SEM, MEL 26.92%), fragile near the base and solid (MEL 73.07%, OBL 23.33%), fragile near the base and not solid (PEC-18, PEC-36, OBL 76.66%) |
| Vegetative stems | Fragile and solid (ROS, ARR, HET, ROB 41.66%), fragile and not solid (ROB 58.33%), fragile near the base and solid (CAN, SEM, MEL, IMP, AGE, PEC-18, PEC-36), fragile near the base and not solid (OBL 76.66%) or solid (OBL 23.33%) |
| Viscose covering glands | Plant with viscose glands (ROS, HET, CAN, ARR, IMP, SEM, MEL, PEC-18, PEC-36, OBL, ROB), plant with flowers and interseminal bracts with viscose glands (AGE) |

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| Peduncle shape | Not thickened above (ARR 96.36%, OBL 95.55%, PEC-18 41.63%, ROB 76.81%), slightly thickened above (HET, MEL, IMP 97.70%, PEC-36) or strongly thickened above (ROS, CAN 91.52%, SEM, AGE, PEC-18 54.66%, ROB 23.18%) |
| Leaf shape of the flowering stems | Lower leaf: linear (ROS, ARR, HET, CAN 62.13%, SEM 70%, MEL 75.76%), lanceolate (CAN 37.87%, AGE 82.25%, PEC-18, PEC-36 97.68%), spatulate (SEM 10%, MEL 5%, OBL 98.88%, ROB), narrowly elliptical, strongly grooved on both sides (IMP), narrowly elliptical slightly grooved on both side (SEM 20%, MEL 19.24%) Middle leaf: linear (ROS, ARR, HET, CAN 94.87%, SEM 93.48%, MEL 92.31%, PEC-36 38.15%, ROB 39.49%), lanceolate (AGE 91.94%, CAN 5.13%, PEC-18 91.43%, PEC-36 24.28%), spatulate (OBL, ROB 56.52%), narrowly elliptical, strongly grooved on both sides (IMP), narrowly elliptical slightly grooved on both side (PEC-36 37.57%) Upper leaf: linear (ROS, ARR, HET, CAN 80.07%, SEM, MEL, IMP 96.55%, AGE 43.55%, PEC-18 37.96%, PEC-36 65.89%, OBL 32.23%, ROB 60.86%), lanceolate (PEC-18 34.69%, PEC-36 26.02%), elliptical (AGE 43.55%, OBL 64.44%, ROB 38.06%) |
| Leaf shape of the sterile stems | Lower leaf: linear (ROS, ARR, HET 90.91%, CAN 94.87%, AGE 38.71%, SEM 80.44%, MEL 76.20%), lanceolate (AGE 61.29%, PEC-18 95.92%, PEC-36 76.31%), spatulate (SEM 19.56%, MEL 23.80%, PEC-36 23.69%, OBL 97.77%, ROB 76.09%), narrowly elliptical, strongly grooved on both sides (IMP) Middle leaf: linear (ROS, ARR, HET, CAN 94.47%, SEM 23.92%, MEL 30%, AGE 41.93%, PEC-18 17.95%, PEC-36 57.22%, ROB 14.86%), lanceolate (SEM 34.78%, MEL 30%, PEC-18 82.05%, PEC-36 20.24%, ROB 23.19%), spatulate (SEM 17.93%, OBL, ROB 61.93%), narrowly elliptical, strongly grooved on both sides (IMP), narrowly elliptical slightly grooved on both side (SEM 23.37%, MEL 40%, AGE 58.07%, PEC-36 22.54%) |
| Leaf margin | Thickened and involute-appressed margin (ROS, HET, CAN, ARR, ROB), without thickened and involute-appressed margin (SEM, MEL, IMP, PEC-18, PEC-36, AGE, OBL, ROB) |

Leaf incision of the flowering stem

Lower leaf: entire (ROS 40.72%, HET 11.24%, ROB 12.23%), dentate or scaly-dentate (ARR 43.63%, HET 43.76%, CAN 36.88%), pinnatisect (HET 10.69%, CAN 13.42%, SEM 42.39%, PEC-18 88.57%, PEC-36 61.27%, OBL 32.23%, ROB 18.48%), pinnatifid (HET 33.69%, CAN 40.63%, SEM 36.96%, MEL 46.15%, OBL 27.77%, ROB 39.49%), imbricate-tuberculate-denticulate (IMP), pinnatipartite (ROS 51.10%, ARR 45.45%, SEM 10.87%, PEC-18 10.12%, PEC-36 38.73%, OBL 26.66%, ROB 29.72%), pinnatipartite to pinnatifid (AGE 64.52%), pinnatipartite to dentate (AGE 35.48%)

Middle leaf: entire (ROS 71.43%, ARR 16.36%, HET 32.09%, CAN 15.39%, ROB 12.33%), dentate or scaly-dentate (ROS 28.57%, ARR 41.82%, HET 51.26%, CAN 65.09%, SEM 69.57%, MEL 38.46%), pinnatisect (PEC-18 20.41%, PEC-36 16.76%), pinnatifid (ARR 12.73%, HET 12.84%, CAN 17.35%, SEM 21.19%, MEL 50.00%, PEC-36 12.72%, OBL 48.88%, ROB 56.16%), pinnatipartite (MEL 11.54%, OBL 37.77%, ROB 13.76%), pinnatipartite to dentate (AGE 38.71%), pinnatisect to dentate (AGE 61.29%)

Upper leaf: entire (ROS, ARR 34.54%, HET, CAN, MEL, SEM 82.06%, ROB 98.55%), scaly-dentate (ARR 32.73%, SEM 17.94%, PEC-18 13.07%), imbricate-tuberculate-denticulate (ARR 32.73%, IMP), pinnatisect to pinnatifid (AGE 46.77%, PEC-18 40.81%, PEC-36 21.96%), pinnatifid (AGE 51.62%, PEC-18 36.33%, PEC-36 64.17%)

Leaf incision of the sterile stem

Lower leaf: entire (ROS 34.62%, HET 4.50%), dentate (ROS 33.29%, HET 19.25%), pinnatisect (CAN 12.82%, SEM 53.00%, MEL 26.93%, PEC-18 94.69%, PEC-36 70.53%, OBL 58.88%, ROB 52.89%), pinnatifid (HET 31.01%, CAN 37.09%, SEM 21.85%, MEL 73.07%, OBL 20.00%, ROB 20.65%), pinnatipartite (ROS 32.07%, ARR 85.45%, HET 27.00%, CAN 11.83%, AGE 64.52%, PEC-36 24.85%, ROB 21.02%), pinnatipartite to pinnatifid (AGE 35.48%)

Middle leaf: entire (ROS 70.98%, HET 11.22%), dentate or scaly-dentate (ROS 15.75%, ARR 25.45%, HET 42.24%, CAN 46.36%, SEM 38.58%), pinnatifid (ROS 13.27%, HET 23.26%, CAN 28.59%, SEM 38.04%, MEL 30.77%, OBL 17.77%, ROB 58.33%), imbricate-tuberculate-denticulate (ARR 11.76%, IMP), pinnatipartite (ARR 40.00%, HET 11.49%, MEL 57.69%, PEC-36 14.46%, OBL 50.00%, ROB 19.93%), pinnatipartite to pinnatifid (AGE)

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| Lobe insertion of the leaves of the flowering stems | <p>Lower leaf: without lobes (ROS 44.03%, OBL 18.88%), lobes along upper 1/3 (ARR 25.45%, HET 64.18%, CAN 42.61%, SEM 36.42%, MEL 53.84%, PEC-36 19.65%, ROB 92.04%), lobes along upper 1/2 (ROS 52.87%, OBL 80.01%), lobes along upper 1/2 on both sides to the margin (ARR 54.54%, HET 29.94%, CAN 46.35%, SEM 54.34%, PEC-18 72.24%, PEC-36 68.78%), lobes along upper 2/3 on both sides to the margin (ARR 18.19%, MEL 30.77%, AGE 50.00%, PEC-18 14.29%, PEC-36 11.57%), lobes from the apex to the base on both sides to the margin (IMP, MEL 15.39%, AGE 45.16%)</p> <p>Middle leaf: without lobes (ROS 70.35%, HET 29.42%, CAN 19.93%, OBL 22.23%, ROB 19.92%), lobes along upper 1/3 (ROS 25.23%, HET 29.41%, CAN 18.34%, SEM 15.22%, MEL 34.62% ROB 71.02%), lobes along upper 1/2 on both sides to the margin (ARR 30.92%, HET 33.68%, CAN 31.95%, SEM 47.28%, OBL 76.66%), lobes along upper 2/3 on both sides to the margin (ARR 45.45%, CAN 28.40%, SEM 37.50%, MEL 46.16%, AGE 29.04%, PEC-18 79.18%, PEC-36 58.95%), lobes from the apex to the base on both sides to the margin (MEL 15.38%, IMP, AGE 70.96%, PEC-18 14.69%, PEC-36 37.57%)</p> <p>Upper leaf: without lobes (ROS, ARR 50.91%, HET 94.65%, CAN 77.72%, SEM 80.44%, MEL, OBL, ROB 98.91%), lobes along upper 1/3 (ARR 20.00%), lobes along upper 1/2 on both sides to the margin (PEC-18 20.41%, PEC-36 28.33%), lobes along upper 2/3 on both sides to the margin (ARR 25.46%, CAN 12.82%, AGE 38.72%, PEC-18 55.11%, PEC-36 36.99%), lobes from the apex to the base on both sides to the margin (AGE 50.00%, PEC-18 20.81%, PEC-36 31.79%)</p> |
| Lobe insertion of the leaves of the sterile stems | <p>Lower leaf: without lobes (ROS 38.72%), lobes along upper 1/3 (ARR 20.00%, HET 73.79%, CAN 33.54%, MEL 57.69%, AGE 14.52%, PEC-18 21.63%, PEC-36 17.93%, ROB 87.68%), lobes along upper 1/2 (ROS 52.65%, ARR 52.73%, HET 22.99%, CAN 53.04%, SEM 37.50%, PEC-18 56.33%, PEC-36 46.24%, OBL 83.33%, ROB 11.59%), lobes along upper 2/3 on both sides to the margin (ARR 27.27%, CAN 12.82%, SEM 47.28%, MEL 42.31%, AGE 30.64%, PEC-18 17.15%, PEC-36 34.68%, OBL 15.55%), lobes from the apex to the base on both sides to the margin (IMP, AGE 45.17%)</p> |

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| | Middle leaf: without lobes (ROS 28.76%), lobes along upper 1/3 (ROS 29.43%, CAN 27.81%, MEL 57.69%, ROB 26.44%), lobes along upper 1/2 (ROS 19.03%), lobes along upper 1/2 on both sides to the margin (ARR 69.09%, HET 42.78%, CAN 38.47%, SEM 19.02%, PEC-18 16.33%, OBL 17.77%, ROB 63.41%), lobes along upper 2/3 (ROS 22.78%), lobes along upper 2/3 on both sides to the margin (ARR 25.45%, HET 24.59%, CAN 51.87%, SEM 78.26%, MEL 42.31%, AGE 54.83%, PEC-18 82.85%, PEC-36 67.63%, OBL 77.77%), lobes from the apex to the base on both sides to the margin (IMP, AGE 45.17%, PEC-36 27.75%) |
| Basal and fascicular leaf shape | Fascicular leaf: elliptical, grooved on both sides (ROS, ARR, HET 87.17%, CAN, IMP, SEM 80.00%, MEL 70.00%, PEC-18, PEC-36, AGE, ROB 48.19%), elliptical and obovate, grooved on both sides (HET 12.83%, SEM 20.00%, MEL 30.00%), spatulate, without grooves (OBL, ROB 51.81%) Basal leaf: subterete and elliptical, grooved on both sides (ROS, ARR, HET, CAN, IMP, SEM, MEL, PEC-18, PEC-36, AGE, ROB 48.19%), obovate (HET 12.83%, SEM 19.09%, MEL 26.92%), spatulate, without grooves (OBL, ROB 51.81%) |
| Basal and fascicular leaf incisión | Impressed-tuberculate-denticulate (ROS, ARR, HET, CAN, SEM, IMP, ROB 14.49%), imbricate-scaly-dentate (PEC-18, PEC-36, AGE, MEL), pinnatipartite to pinnatifid (OBL), pinnatifid (ROB 85.51%) |
| Leaf apex | Acute mucronate (ROS, ARR, HET, CAN, AGE, PEC-18, PEC-36, ROB 32.25%), trilobulate (ROB 31.88%), rounded (IMP, OBL, ROB 24.64%) or obtuse mucronate (ROS, ARR, HET, CAN, SEM, MEL, AGE, PEC-18, PEC-36, ROB 11.23%) |
| Lobe shape | Linear and elliptical (ROS, ARR, HET, CAN, SEM, MEL, PEC-18, PEC-36, ROB), elliptical (OBL), rounded (IMP) |
| Capitulum shape | Hemispherical (ROS, HET 4.27%, CAN 43.19%, IMP 87.35%, OBL 44.44%, ROB 69.92%), subglobose (ARR, HET 93.04%, CAN 56.80%, SEM 14.67%, MEL, IMP 12.64%, AGE, PEC-18, PEC-36, OBL 55.54%, ROB 30.06%) |
| Capitulum base | Not umbilicate (ROS 77.87%, ARR, HET, CAN 93.90%, SEM 80.70%, IMP 94.18%, PEC-18, PEC-36, AGE, OBL 75.25%, ROB 50.92%), slightly umbilicate (MEL), or strongly umbilicate (ROS 22.12%, CAN 6.09%, SEM 19.30%, IMP 5.82%, OBL 24.75%, ROB 49.08%) |

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| Receptacle shape | Hemispherical (ROS, HET, CAN, SEM, MEL, IMP, OBL, ROB), conical (ARR, AGE) or usually lenticular (PEC-18, PEC-36) |
| Shape of the outer bracts | Triangular (ROS 48.01%, ARR 50.91%, HET 82.35%, CAN 85.60%, SEM 47.28%, MEL 19.23%, IMP 44.83%, AGE 74.19%, PEC-18 66.94%, PEC-36 78.61%, OBL 61.12%, ROB 68.48%), ovate (ROS 39.60%, ARR 43.63%, HET 11.23%, CAN 12.04%, SEM 35.86%, MEL 57.69%, IMP 45.98%, AGE 17.74%, PEC-18 25.31%, PEC-36 12.72%, OBL 28.88%, ROB 25.00%) or elliptical (MEL 23.08%, SEM 15.77%) |
| Shape of the middle bracts | Triangular (ROS 61.94%, ARR 43.63%, HET 80.74%, CAN 98.87%, SEM 27.17%, IMP 29.88%, AGE 66.13%, PEC-18 93.47%, PEC-36 90.17%, OBL 62.22%, ROB 62.32%), ovate (ROS 14.82%, ARR 34.54%, SEM 20.11%, MEL 50.00%, IMP 21.84%, OBL 27.77%, ROB 17.39%), ovate-triangular (ROS 23.01%, ARR 21.83%, HET 12.83%, SEM 50.55%, MEL 23.07%, IMP 48.28%, OBL 10.01%, ROB 13.76%) or elliptical (MEL 19.24%, AGE 17.74%, ROB 17.39%) |
| Shape of the first row of the involucre bracts | Triangular (ROS 44.69%, HET 32.08%, CAN 13.81%, AGE 27.42%, PEC-18 33.47%, PEC-36 24.85%, OBL 34.44%, ROB 44.20%), ovate (ROS 37.39%, ARR 45.45%, HET 15.51%, SEM 66.84%, MEL 80.77%, IMP 83.57%, AGE 11.29%, PEC-36 11.56%, OBL 50.01%, ROB 26.45%), ovate-triangular (HET 10.16%, SEM 22.82%, OBL 10.00%, ROB 15.94%), elliptical (ARR 36.36%, HET 20.33%, CAN 29.58%, MEL 19.23%, AGE 54.84%, PEC-18 15.92%, PEC-36 12.72%), oblong (ARR 14.55%, HET 21.92%, CAN 48.72%, PEC-18 40.82%, PEC-36 50.87%) |
| Shape of the second rows of the involucre bracts | Elliptical (ROS 46.46%, ARR 70.91%, HET 74.87%, CAN 70.41%, SEM 25.01%, MEL 61.54%, IMP 58.63%, AGE 91.93%, PEC-18 53.87%, PEC-36 67.67%, ROB 34.78%), ovate (ROS 33.41%, ARR 10.91%, HET 12.29%, SEM 66.30%, MEL 30.77%, IMP 22.98%, PEC-36 12.76%, ROB 36.95%) or oblong (ROS 19.46%, ARR 18.18%, HET 12.84%, CAN 23.67%, IMP 18.36%, PEC-18 42.86%, PEC-36 19.57%) |

Shape of the interseminal bracts Elliptical (ROS 32.31%, ARR 52.73%, HET 71.12%, CAN 60.55%, SEM 40.82%, MEL 15.38%, IMP 25.28%, AGE 24.19%, PEC-18 33.88%, PEC-36 32.36%, OBL 63.33%, ROB 57.97%), obovate (ROS 48.67%, ARR 32.73%, HET 12.84%, CAN 15.59%, SEM 17.94%, MEL 76.93%, IMP 16.10%, AGE 40.33%, PEC-18 21.23%, PEC-36 26.02%, OBL 12.23%, ROB 13.77%), oblong (ROS 19.46%, ARR 14.54%, HET 16.04%, CAN 23.86%, SEM 41.84%, IMP 58.66%, AGE 35.48%, PEC-18 44.89%, PEC-36 41.62%, OBL 24.44%, ROB 28.26%)

Apex of the involucre bracts Outer bracts: non-acuminate (ROS 45.79%, ARR 89.09%, HET 47.06%, CAN, SEM 15.76%, MEL 11.54%, IMP 54.03%, AGE 80.64%, PEC-18, PEC-36, OBL 78.88%, ROB 60.87%) or acuminate (ROS 54.21%, ARR 10.91%, HET 52.94%, SEM 84.24%, MEL 88.46%, IMP 45.97%, AGE 19.36%, OBL 21.12%, ROB 39.13%)
Middle bracts: non-acuminate (ROS 94.69%, ARR 98.18%, HET 85.56%, CAN, SEM 76.36%, MEL 34.62%, IMP 97.71%, AGE 95.16%, PEC-18, PEC-36, OBL 95.56%, ROB 88.41%) or acuminate (SEM 23.54%, MEL 65.38%, ROB 11.59%)
Inner bracts: non-acuminate (ROS, ARR, HET, CAN, SEM 96.19%, MEL 92.31%, IMP, AGE 59.67%, PEC-18, PEC-36, OBL 97.77%, ROB 94.92%) or acuminate (SEM 3.81%, MEL 7.69%, AGE 40.33%, OBL 2.23%, ROB 5.08%)

Color and texture of the appendage of the involucre bracts Hyaline and not fragile (ROS, ARR, HET, CAN, SEM, MEL, IMP, PEC-18, PEC-36, OBL, ROB) or dark copperish and fragile (AGE)

Insertion of the appendage of the involucre bracts Outer bracts: lacerate in the apex, non-decurrent (ROS 60.85%, ARR 18.19%), lacerate or lacerate to fimbriate in the apex and slight fimbriate to the base (HET 94.12%, CAN 20.91%, SEM 84.24%, MEL 80.77%, IMP 96.26%, OBL 58.88%, ROB 74.28%), lacerate along upper 1/3 (ROS 20.79%, ARR 43.63%), lacerate or lacerate to fimbriate along upper 1/3 and slight fimbriate along lower 2/3 (HET 5.35%, CAN 15.98%, SEM 15.76%, MEL 19.23%, IMP, OBL 40.00%, ROB 23.18%), lacerate along upper 1/2 (ROS 8.19%, ARR 12.73%), lacerate or lacerate to fimbriate along upper 1/2 and slight fimbriate along lower 1/2 (CAN 8.28%), lacerate to lacerate-denticulate or lacerate to erose from the apex to the base (ROS 10.23%, ARR 25.45%), lacerate to lacerate-denticulate or lacerate to fimbriate from the apex to the base (HET 0.53%, CAN 52.86%, AGE, PEC-18, PEC-36)

Middle bracts: lacerate to lacerate-denticulate or lacerate to erose from the apex to the base (ROS 67.26%, ARR 58.18%), lacerate to lacerate-denticulate or lacerate to fimbriate from the apex to the base (HET 12.83%, CAN 76.92%, IMP 60.92%, AGE, PEC-18, PEC-36), lacerate along upper 1/2 (ROS 10.62%), lacerate or lacerate to fimbriate along upper 1/2 and slight fimbriate along lower 1/2 (CAN 10.85%, SEM 14.67%, OBL 12.23%, ROB 15.22%), lacerate along upper 1/3 (ROS 18.58%, ARR 34.54%), lacerate or lacerate to fimbriate along upper 1/3 and slight fimbriate along lower 2/3 (IMP 34.49%, HET 48.66%, SEM 64.67%, MEL 88.47%, IMP 34.49%, OBL 62.22%, ROB 67.03%), or lacerate in the apex, non-decurrent (HET 31.55%, SEM 20.12%, IMP 60.92%, OBL 17.77%, ROB 11.59%)

Insertion of the First row of the inner bracts: lacerate to lacerate-denticulate or lacerate to erose from the apex appendage of the to the base (ROS 80.75%, ARR 61.82%), lacerate to lacerate-denticulate or lacerate to fimbriate from the apex to the base (HET 10.16%, CAN 36.29%, MEL 15.85%, AGE 58.06%, PEC-18, PEC-36), lacerate to lacerate-denticulate or lacerate to fimbriate along upper 2/3 (HET 5.88%, CAN 15.19%, MEL 3.85%, AGE 38.71%), lacerate along upper 1/2 (ARR 18.18%), lacerate to lacerate-denticulate or lacerate to fimbriate along upper 1/2 (HET 9.62%, CAN 26.03%, SEM 28.26%, MEL 11.53%, OBL 27.78%, ROB 33.33%), lacerate along upper 1/3 (ROS 13.27%, ARR 20.70%), lacerate or lacerate to fimbriate along upper 1/3 and slight fimbriate along lower 2/3 (HET 66.32%, CAN 22.29%, SEM 69.57%, MEL 69.24%, IMP 72.42%, OBL 71.11%, ROB 56.16%) or lacerate in the apex, non-decurrent (IMP 25.28%, HET 8.02%)

Second row of the inner bracts: lacerate along upper 1/3 (ROS 23.01%, ARR 14.55%), lacerate or lacerate to fimbriate along upper 1/3 and slight fimbriate along lower 2/3 (HET 60.93%, CAN 37.68%, SEM 71.74%, MEL 69.24%, IMP 38.41%, OBL 30.00%, ROB 54.35%), lacerate along upper 1/2 (ARR 30.91%), lacerate or lacerate to fimbriate along upper 1/2 and slight fimbriate along lower 1/2 (HET 17.52%, CAN 29.58%, SEM 25.54%, MEL 11.54%, OBL 54.45%), lacerate to lacerate-denticulate or lacerate to fimbriate along upper 2/3 (AGE 61.29%, CAN 11.25%), lacerate to lacerate-denticulate or lacerate to erose from the apex to the base (ROS 62.39%, ARR 54.54%), lacerate to lacerate-denticulate or lacerate to fimbriate from the apex to the base (HET 21.49%, CAN 21.49%, MEL 15.38%, IMP 33.34%, PEC-18, PEC-36, AGE 35.48%)

Shape and insertion of the keel Outer and middle bracts strongly carinate, while the first and second row of inner bracts are carinate in the lower 2/3 or slightly carinate in the centre of the bracts, respectively (ROS,

HET, SEM, ARR, IMP, AGE, ROB); outer bracts are carinate, the middle bracts carinate in the centre of the bracts, and the first and second row of inner bracts are carinate or slightly carinate in the centre of the bracts (CAN); outer bracts are carinate, the middle and first row of inner bracts are carinate in the lower 2/3, and the second row of inner bracts are slightly carinate in the centre of the bract (MEL, OBL); bracts carinate or slightly carinate in the lower 2/3 for outer bracts, or in the centre of the bract for middle and inner bracts respectively (PEC-18, PEC-36)

Indument of the interseminal bracts Glabrous (ROS, AGE, HET 5.88%, SEM 0.54%, ARR 41.82%, MEL 3.84%, PEC-18 32.34%, PEC-36 27.74%, ROB 24.27%), villous (HET 17.11%, CAN 71.00%, MEL 3.84%, SEM 4.34%, ARR 52.73%, PEC-18 22.44%, PEC-36 23.69%, ROB 4.71%), tomentose (HET 19.78%, CAN 14.99%, MEL 7.69%, OBL 31.11%, SEM 81.52%, IMP 24.14%, HET 28.98%, PEC-18 45.30%, PEC-36 48.55%), pilose (ARR 5.45%, HET 34.75%, CAN 11.83%, SEM 6.52%, MEL 50.00%, ROB 3.62%) or sericeous (HET 22.46%, CAN 2.17%, SEM 7.06%, MEL 34.61%, OBL 68.88%, ROB 38.40%)

Colour of fresh flowers Orange yellow (MEL), yellow (ROS, HET, ARR, CAN, SEM, PEC-18, PEC-36, AGE, OBL, ROB)

Position of the peripheral and central flowers All the taxa show the flowers erect or with the peripheral flowers at an angle of 90°, except for OBL and ROB and three individuals of HET, in which the peripheral flowers cover the capitulum and central flowers are at an angle of 90
