**Supplementary Table 1.** Collection information for all specimens included in the present study: DNA code, individual code associated with specimen label in multiple sequence alignment; Taxon, morphological/chemical species identification; Species distribution (S.D.), geographically assigned distribution for each species/species-level lineage (ASI = Asia; AUS = Australia; eAFR = East Africa; sAFR = South Africa; EUR = Europe; NA = North America; SA = South America) used in the BioGeoBears analyses; Voucher information; and GenBank accession numbers for sampled loci - bolded text indicates new sequences generated for this study. Specimens sequenced using Illumina technology are indicated by an ‘\*’ with the associated DNA code.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| (GenBank) | *Austroparmelina pruinata* | - | Australia: Western Australia, E. McCrum s.n. (MAF-Lich 14270) | EF042905 | EF042914 | - | - | JX974675 | GU994680 | - | - | EF025481 |
| (GenBank) | Canoparmelia crozalsiana | - | Spain: (Crespo 7658 (MAF-Lich) | AY586571 | AY584831 | - | - | KR995569 | EF092104 | - | KP888205 | AY586594 |
| 4860 (MAF-Lich) | *Canoparmelia* sp. '4860' | - | Kenya: Eastern Prov., Kirika & Lumbsch 4860 (MAF-Lich) | **MG825903** | **MG825905** | - | - | - | - | - | - | **MG825904** |
| (GenBank) | *Canoparmelia texana* | - | India: Uttaranchal, Divakar GPGC 02-000637 (MAF-Lich 14272) | EF042906 | EF042915 | - | - | KR995555 | EF092105 | - | KP888191 | - |
| (GenBank) | *Cetrelia cetrarioides* | - | Spain: Asturias, Divakar s.n. (MAF-Lich 15552) | JN943844 | GU994591 | - | - | KR995562 | GU994692 | - | KP888197 | GU994636 |
| (GenBank) | *Flavoparmelia marchantii* | - | Australia: Western Australia, Elix s.n. (MAF-Lich 10492) | DQ299905 | GU994598 | - | - | GQ272420 | GU994698 | - | GQ272463 | GU994642 |
| (GenBank) | *Melanelixia glabroides* | - | USA: California, Walton 11036 (YOSE) | JX126250 | JX126334 | - | - | JX126374 | JX126404 | JX126459 | - | - |
| (GenBank) | *Melanohalea clari* | - | USA: Utah; Leavitt 1036.FW5 (F) | JQ813693 | JQ813088 | - | - | JN992717 | JQ814042 | JQ813277 | - | JQ813182 |
| (GenBank) | *Parmotrema crinitum* | - | Portugal: Lisboa, Crespo s.n. (MAF-Lich 6061) | AY586565 | AY584837 | - | - | KR995650 | GU994723 | - | KP888272 | EU562699 |
| (GenBank) | *Punctelia bolliana* | - | USA: Minnesota, Cole 11219 (MAF-Lich 17774) | GU994579 | GU994628 | - | - | KR995671 | GU994733 | - | KP888284 | GU994673 |
| E250 | *Xanthoparmelia adhaerens* ( | sAFR | South Africa: 16212 (MAF-Lich) | HM125744 | HM125766 | - | - | - | - | - | - | HM125722 |
| 082f\* | *Xanthoparmelia* aff. *chlorochroa* | NA | USA: Utah; Leavitt et al. 55225 (BRY-C) | **MG695498** | **MG695599** | **MG695404** | **MG695451** | **MG695699** | **MG695865** | **MG695955** | **MG696002** | **MG695746** |
| 9866\* | *Xanthoparmelia* aff. *chlorochroa* | NA | USA: Nevada; Leavitt & St. Clair 9866 (BRY-C) | **MG695499** | **MG695600** | **MG695405** | **MG695452** | **MG695700** | **MG695866** | **MG695956** | **MG696003** | **MG695747** |
| 135f\* | Xanthoparmelia aff. coloradoensis (E1) | NA, AS | USA: Utah; Leavitt et al. 55255 (BRY-C) | **MG695500** | **MG695601** | **MG695406** | **MG695453** | **MG695701** | **MG695867** | **MG695957** | **MG696004** | **MG695748** |
| 098f\* | *Xanthoparmelia* aff. *dierythra* | NA | Mexico: Puebla; Leavitt 55234 (BRY-C) | **MG695501** | **MG695602** | **MG695407** | **MG695454** | **MG695702** | **MG695868** | **MG695958** | **MG696005** | **MG695749** |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| E441 | *Xanthoparmelia* aff. *epacridea* | sAFR | South Africa: 16208 (MAF-Lich) | HM125752 | HM125777 | - | - | - | - | - | - | HM125733 |
| E911 | *Xanthoparmelia* aff. *hypo-protocetrarica* | sAFR | South Africa: 17193 (MAF-Lich) | JQ912380 | JQ912473 | - | - | - | - | - | - | - |
| 4637 | *Xanthoparmelia* aff. *krogiae* | eAFR | Kenya: Eastern Prov., Kirika 4637 (MAF-Lich) | **MG695502** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695750** |
| E457 | *Xanthoparmelia* aff. *krogiae* | eAFR | Kenya: E457 (MAF-Lich 17169) | JQ912361 | JQ912456 | - | - | - | - | - | - | - |
| 4859 | *Xanthoparmelia* aff. *plittii* 'KE1' | eAFR | Kenya: Eastern Prov., Kirika & Lumbsch 4859 (MAF-Lich) | **MG695503** | **MG695603** | **-** | **-** | **-** | **MG695869** | **-** | **-** | **MG695751** |
| 9349\* | *Xanthoparmelia* aff. *plittii* 'KE1' | eAFR | Kenya: Eastern Prov., Kirika & Lumbsch 3820 (F) | **MG695504** | **MG695604** | **MG695408** | **MG695455** | **MG695703** | **MG695870** | **MG695959** | **MG696006** | **MG695752** |
| 9349 | *Xanthoparmelia* aff. *plittii* 'KE1' | eAFR | Kenya: Eastern Prov., Kirika & Lumbsch 3820 (F) | **MG695505** | **MG695605** | **-** | **-** | **-** | **MG695871** | **-** | **-** | **MG695753** |
| 9353\* | *Xanthoparmelia* aff. *plittii* 'KE2' | eAFR | Kenya: Eastern Prov., Kirika & Lumbsch 3876 (F) | **MG695506** | **MG695606** | **MG695409** | **MG695456** | **MG695704** | **MG695872** | **MG695960** | **MG696007** | **MG695754** |
| 9353 | *Xanthoparmelia* aff. *plittii* 'KE2' | eAFR | Kenya: Eastern Prov., Kirika & Lumbsch 3876 (F) | **MG695507** | **MG695607** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695755** |
| 9495\* | *Xanthoparmelia* aff. *plittii* 'KE3' | eAFR | Kenya: Coast Prov., Kirika, Mugambi & Lumbsch 2442 (F) | **MG695508** | **MG695608** | **MG695410** | **MG695457** | **MG695705** | **MG695873** | **MG695961** | **MG696008** | **MG695756** |
| 9495 | Xanthoparmelia aff. plittii 'KE3' | eAFR | Kenya: Coast Prov., Kirika, Mugambi & Lumbsch 2442 (F) | **MG695509** | **MG695609** | **-** | **-** | **-** | **MG695874** | **-** | **-** | **MG695757** |
| 4854 | *Xanthoparmelia* aff. *saxetii* 'KE' | eAFR | Kenya: Eastern Prov., Kirika & Lumbsch 4854 (MAF-Lich) | **MG695569** | **-** | **-** | **-** | **-** | **MG695926** | **-** | **-** | **MG695825** |
| 4855 | *Xanthoparmelia* aff. *saxetii* 'KE' | eAFR | Kenya: Eastern Prov., Kirika & Lumbsch 4855 (MAF-Lich) | - | - | - | - | - | - | - | - | **MG695826** |
| 9355 | *Xanthoparmelia* aff. *saxetii* 'KE' | eAFR | Kenya: Coast, Kirika 3597 (F) | **-** | **MG695671** | **-** | **-** | **-** | **MG695927** | **-** | **-** | **MG695827** |
| 9356\* | *Xanthoparmelia* aff. *saxetii* 'KE' | eAFR | Kenya: Eastern, Kirika 3817 (F) | **MG695570** | **MG695672** | **MG695436** | **MG695483** | **MG695731** | **MG695928** | **MG695987** | **MG696034** | **MG695828** |
| 9356 | *Xanthoparmelia* aff. *saxetii* 'KE' | eAFR | Kenya: Eastern, Kirika 3817 (F) | **MG695571** | **MG695673** | **-** | **-** | **-** | **MG695929** | **-** | **-** | **MG695829** |
| 9571 | *Xanthoparmelia* aff. *saxetii* 'KE' | eAFR | Kenya: Eastern, Kirika 3817 (F) | **MG695572** | **MG695674** | **-** | **-** | **-** | **MG695930** | **-** | **-** | **MG695830** |
| 9576 | *Xanthoparmelia* aff. *saxetii* 'KE' | eAFR | Kenya: Eastern, Kirika 3815 (F) | **MG695573** | **MG695675** | **-** | **-** | **-** | **MG695931** | **-** | **-** | **MG695831** |
| 13317f | *Xanthoparmelia* aff. *saxetii* 'KR' | ASI | South Korea: 110100 | **MG695574** | **-** | **-** | **-** | **-** | **MG695932** | **-** | **-** | **-** |
| 13467f | *Xanthoparmelia* aff. *saxetii* 'KR' | ASI | South Korea: 110253 | **MG695575** | **MG695676** | **-** | **-** | **-** | **MG695933** | **-** | **-** | **-** |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| 13524f | *Xanthoparmelia* aff. *saxetii* 'KR' | ASI | South Korea: 110478 | **MG695576** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| 538f | *Xanthoparmelia* aff. *saxetii* 'SA' | SA | Uruguay: Florida; Leavitt (55567 BRY-C) | HM578888 | HM579299 | - | - | HM579689 | KR995522 | - | KP888313 | KR995373 |
| 540f | *Xanthoparmelia* aff. *saxetii* 'SA' | SA | Uruguay: Florida; Leavitt (55568 BRY-C) | HM578889 | HM579300 | - | - | - | - | - | - | - |
| 540f\* | *Xanthoparmelia* aff. *saxetii* 'SA' | SA | Uruguay: Florida; Leavitt (55568 BRY-C) | **MG695578** | **MG695678** | **MG695437** | **MG695484** | **MG695732** | **MG695935** | **MG695988** | **MG696035** | **MG695833** |
| (GenBank) | *Xanthoparmelia* aff. *saxetii* 'TW' | ASI | Taiwan: Pingtung County; Aptroot 53350 (ABL) | AY581063 | AY578926 | - | - | - | - | - | - | AY582299 |
| (GenBank) | *Xanthoparmelia* aff. *stenophylla* '*protomatrae*' | ASI, EUR, NA | Spain: Zamora; Blanco & Crespo 6216 (MAF-Lich) | AY581104 | AY578972 | - | - | - | - | - | - | AY582339 |
| (GenBank) | *Xanthoparmelia* aff. *stenophylla* '*stenophylla*' | ASI, EUR, NA | Spain, Guadalajara; Crespo et al. 9917 (MAF-Lich) | AY581093 | AY578959 | - | - | - | - | - | - | AY582329 |
| (GenBank) | *Xanthoparmelia* aff. *stenophylla* '*subdiffluens*' | EUR | Canary Islands: Tenerife; Crespo & Crespo (7460 MAF-Lich) | AY581105 | AY578973 | - | - | - | - | - | - | AY58234 |
| 4748 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Central Prov., Kirika & Lumbsch 4748 (MAF-Lich) | **MG695516** | **-** | **-** | **-** | **-** | **MG695881** | **-** | **-** | **MG695765** |
| 9344\* | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika & Mugambi 3553 (F) | **MG695510** | **MG695610** | **MG695411** | **MG695458** | **MG695706** | **MG695875** | **MG695962** | **MG696009** | **MG695758** |
| 9344 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika & Mugambi 3553 (F) | **-** | **MG695611** | **-** | **-** | **-** | **MG695876** | **-** | **-** | **MG695759** |
| 9345 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika, Malombe & Matheka 3680 (F) | **MG695518** | **MG695618** | **-** | **-** | **-** | **MG695883** | **-** | **-** | **MG695767** |
| 9346 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika, Malombe & Matheka 3691A | **MG695511** | **MG695612** | **-** | **-** | **-** | **MG695877** | **-** | **-** | **MG695760** |
| 9347 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Coast, Kirika & Lumbsch 3936 (F) | **MG695512** | **MG695613** | **-** | **-** | **-** | **MG695878** | **-** | **-** | **MG695761** |
| 9354 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika & Lumbsch 3811 (F) | **MG695521** | **MG695621** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695770** |
| 9491 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Coast, Kirika, Mugambi & Lumbsch 2293 (F) | **MG695513** | **MG695614** | **-** | **-** | **-** | **MG695879** | **-** | **-** | **MG695762** |
| 9492\* | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika 3235 (F) | **MG695519** | **MG695619** | **MG695413** | **MG695460** | **MG695708** | **MG695884** | **MG695964** | **MG696011** | **MG695768** |
| 9492 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika 3235 (F) | **MG695520** | **MG695620** | **-** | **-** | **-** | **MG695885** | **-** | **-** | **MG695769** |
| 9494 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Eastern, Kirika 3232 (F) | **MG695517** | **MG695617** | **-** | **-** | **-** | **MG695882** | **-** | **-** | **MG695766** |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| 9664\* | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Coast, Kirika & Lumbsch 4117 (F) | **MG695514** | **MG695615** | **MG695412** | **MG695459** | **MG695707** | **MG695880** | **MG695963** | **MG696010** | **MG695763** |
| 9664 | *Xanthoparmelia* aff. *subramigera* | eAFR | Kenya: Coast, Kirika & Lumbsch 4117 (F) | **MG695515** | **MG695616** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695764** |
| 9350\* | *Xanthoparmelia* aff. *subruginosa* 'KE1' | eAFR | Kenya: Eastern, Kirika & Lumbsch 3818 (F) | **MG695527** | **MG695629** | **MG695415** | **MG695462** | **MG695710** | **MG695893** | **MG695966** | **MG696013** | **MG695777** |
| 9350 | *Xanthoparmelia* aff. *subruginosa* 'KE1' | eAFR | Kenya: Eastern, Kirika & Lumbsch 3818 (F) | **MG695528** | **MG695630** | **-** | **-** | **-** | **MG695894** | **-** | **-** | **MG695778** |
| 9681 | *Xanthoparmelia* aff. *subruginosa* 'KE2' | eAFR | Kenya: Eastern, Kirika & Lumbsch 3814 (F) | **MG695529** | **MG695631** | **-** | **-** | **-** | **MG695895** | **-** | **-** | **MG695779** |
| E434 | *Xanthoparmelia* aff. *supposita* | sAFR | South Africa: E434 (MAF-Lich16206-1) | HM125751 | JQ912472 | - | - | - | HM125775 | - | - | HM125731 |
| E905 | *Xanthoparmelia aliphatica* | sAFR | E905 (MAF-Lich) | **MG695535** | **MG695637** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695785** |
| 9289 | *Xanthoparmelia annexa* | eAFR, sAFR | Kenya: Eastern Prov., Kirika, Malombe & Matheka 3693 (F) | **MG695536** | **MG695638** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695786** |
| 9519 | *Xanthoparmelia annexa* | eAFR, sAFR | Kenya: Rift Valley, Kirika, Mugambi & Lumbsch 3087 (F) | **MG695537** | **MG695639** | **-** | **-** | **-** | **MG695897** | **-** | **-** | **MG695787** |
| 14442\* | *Xanthoparmelia arapilensis* | AUS | Australia: Capital Territory, J.A. Elix 46154 (F) | **MG695538** | **MG695640** | **MG695417** | **MG695464** | **MG695712** | **MG695898** | **MG695968** | **MG696015** | **MG695788** |
| 9667 | *Xanthoparmelia atroventralis* | eAFR, sAFR | Kenya: Central Prov., Kirika 4378 (F) | **MG695539** | **MG695641** | **-** | **-** | **-** | **MG695899** | **-** | **-** | **MG695789** |
| E716 | *Xanthoparmelia atroviridis* '1' | sAFR | South Africa: E716 (MAF-Lich 17158) | JQ912314 | JQ912415 | - | - | - | - | - | - | - |
| E728 | *Xanthoparmelia atroviridis* '2' | sAFR | South Africa: E728 (MAF-Lich 17154) | JQ912320 | JQ912419 | - | - | - | - | - | - | **MG695790** |
| E895 | *Xanthoparmelia atroviridis* '3' | sAFR | South Africa: E895 (MAF-Lich 17163) | JQ912329 | JQ912425 | - | - | - | - | - | - | **MG695791** |
| 9549 | *Xanthoparmelia austroafricana* | eAFR, sAFR | Kenya: Coast Prov., Kirika 4485 (F) | **MG695542** | **MG695644** | - | - | - | - | - | - | - |
| (GenBank) | *Xanthoparmelia azaniensis* | sAFR | South Africa: Matroosberg, Crespo et al. s.n. (MAF-Lich 14269) | EF042900 | EF042910 | - | - | - | EF092098 | - | - | EF025478 |
| 14436\* | *Xanthoparmelia barbatica* | AUS | Australia: Capital Territory, J.A. Elix 46158 (F) | **MG695543** | **MG695645** | **MG695418** | **MG695465** | **MG695713** | **MG695900** | **MG695969** | **MG696016** | **MG695792** |
| E467 | *Xanthoparmelia beatricea* | eAFR, sAFR | Kenya: E467 (MAF-Lich 17174) | JQ912367 | JQ912462 | - | - | - | - | - | - | **MG695793** |
| E719 | *Xanthoparmelia bibax* | sAFR | South Africa: E719 (MAF-Lich 17184) | JQ912373 | - | - | - | - | - | - | - | - |
| (GenBank) | *Xanthoparmelia brachinaensis* | AUS | Australia: Flinders Range, Elix 30651 (CANB) | AY581062 | AY578925 | - | - | - | - | - | - | - |
| 14805\* | *Xanthoparmelia bungendorensis* | AUS | Australia, Tasmania: Widhelm 2132 (F) | **MG695582** | **MG695682** | **MG695441** | **MG695488** | **MG695736** | **MG695939** | **MG695992** | **MG696039** | **MG695840** |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| E720 | *Xanthoparmelia caliginosa* | sAFR | South Africa: E720 (MAF-Lich 17150) | JQ912315 | - | - | - | - | - | - | - | - |
| E427 | *Xanthoparmelia chalybaeizans* | sAFR | South Africa: E427 (MAF-Lich 15530-2) | GU903332 | GU903341 | - | - | - | - | - | - | GU903330 |
| 536f | *Xanthoparmelia chlorochroa* | NA | USA: North Dakota; G. Lind 1213 (BRY-C) | HM578887 | HM579298 | HM577781 | - | HM579688 | KR995520 | - | KP888310 | KR995372 |
| E916 | *Xanthoparmelia competita* | sAFR | South Africa: E916 (MAF-Lich 17189) | JQ912383 | JQ912476 | - | - | - | - | - | - | **MG695794** |
| E727 | *Xanthoparmelia condyloides* | sAFR | South Africa: E727 (MAF-Lich 17185) | JQ912374 | JQ912468 | - | - | - | - | - | - | **MG695795** |
| (GenBank) | *Xanthoparmelia conspersa* | EUR, NA, SA, AFR, AUS, ASI | Spain: Zamora, Blanco & Crespo s.n. (MAF-Lich 6793) | AY581096 | AY578962 | - | - | - | EF092155 | - | KP888311 | AF351186 |
| 9577 (F) | *Xanthoparmelia convexula* | eAFR | Kenya: Eastern, Kirika 3816 (F) | **MG695544** | **-** | **-** | **-** | **-** | **MG695901** | **-** | **-** | **MG695796** |
| E422 | *Xanthoparmelia cordillerana* | SA | Chile: E422 (MAF-Lich 17198) | JQ912358 | JQ912453 | - | - | - | - | - | - | **MG695797** |
| (GenBank) | *Xanthoparmelia crespoae* | AUS | Australia: New South Wales, Louwhoff, Molina & Elix (MAF 7524) | AY581097 | AY578963 | - | - | - | - | - | - | AY582332 |
| (GenBank) | *Xanthoparmelia crespoae* | AUS | Australia: New South Wales, Louwhoff, Molina & Elix (MAF 7440) | AY581098 | AY578964 | - | - | - | - | - | - | AY582333 |
| nybg02 | *Xanthoparmelia cumberlandia* | NA | USA: Maine; R. Harris 55563 (NY) | **MG695545** | **MG695646** | **-** | **-** | **-** | **MG695902** | **-** | **-** | **MG695798** |
| 6510\* | *Xanthoparmelia dierythra* | NA | USA: Wisconsin; Leavitt et al. 12-001 (BRY-C) | **MG695547** | **MG695647** | **MG695419** | **MG695466** | **MG695714** | **MG695903** | **MG695970** | **MG696017** | **MG695799** |
| 6510 | *Xanthoparmelia dierythra* | NA | USA: Wisconsin; Leavitt et al. 12-001 (BRY-C) | **MG695546** | **MG695648** | **-** | **-** | **-** | **MG695904** | **-** | **-** | **MG695800** |
| (GenBank) | *Xanthoparmelia exornata* | sAFR | South Africa: Cape Province, Crespo et al. s.n. (MAF-Lich 14266) | EF042908 | EF108318 | - | - | - | EF092130 | - | - | EF025485 |
| 14448\* | *Xanthoparmelia filarszkyana* | AUS | Australia: Capital Territory, J.A. Elix 46155 (F) | **MG695548** | **MG695649** | **MG695420** | **MG695467** | **MG695715** | **MG695905** | **MG695971** | **MG696018** | **MG695801** |
| 14443\* | *Xanthoparmelia flavescentireagens* | AUS | Australia: Capital Territory, J.A. Elix 46153 (F) | **MG695549** | **MG695650** | **MG695421** | **MG695468** | **MG695716** | **MG695906** | **MG695972** | **MG696019** | **MG695802** |
| E851 | *Xanthoparmelia greytonensis* | sAFR | South Africa: E851 (MAF-Lich16210) | HM125755 | HM125780 | - | - | - | - | - | - | - |
| (GenBank) | *Xanthoparmelia hottentotta* | sAFR | South Africa: Cape Province, Crespo et al. s.n. (MAF-Lich 14267 | EF042909 | EF042919 | - | - | - | EF092153 | - | - | EF025486 |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| (GenBank) | *Xanthoparmelia hueana* | sAFR | Namibia: Swamkopmund, Baule 46511 (GZU) | AY581090 | AY578956 | - | - | - | - | - | - | AY582326 |
| 8837\* | *Xanthoparmelia hypofusca* | NA | USA: West Virginia; Streets (02086946 NY) | **MG695550** | **MG695651** | **MG695422** | **MG695469** | **MG695717** | **MG695907** | **MG695973** | **MG696020** | **MG695803** |
| 14444\* | *Xanthoparmelia hypoprotocetrarica* | AUS | Australia: Capital Territory, J.A. Elix 46161 (F) | **MG695551** | **MG695652** | **MG695423** | **MG695470** | **MG695718** | **MG695908** | **MG695974** | **MG696021** | **MG695804** |
| E902 | *Xanthoparmelia hypoprotocetrarica* | AUS | Australia: E902 (MAF-Lich 17200) | JQ912378 | JQ912471 | - | - | - | - | - | - | **MG695805** |
| 9641\* | *Xanthoparmelia hyposila* | eAFR | Kenya: Central, Kirika 4375 (F) | **MG695552** | **MG695653** | **MG695424** | **MG695471** | **MG695719** | **MG695909** | **MG695975** | **MG696022** | **MG695806** |
| 9641 | *Xanthoparmelia hyposila* | eAFR | Kenya: Central, Kirika 4375 (F) | **MG695553** | **MG695654** | **-** | **-** | **-** | **MG695910** | **-** | **-** | **MG695807** |
| 9649 | *Xanthoparmelia hyposila* | eAFR | Kenya: Western, Kirika 4151 (F) | **MG695554** | **MG695655** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695808** |
| E438 | *Xanthoparmelia ianthina* | sAFR | South Africa: E438 (MAF-Lich 16223) | GU992331 | JQ912455 | - | - | - | - | - | - | - |
| E1014 | *Xanthoparmelia imitatrix* | SA, AUS, sAFR | Chile: E1014 (MAF-Lich 17132) | JQ912344 | JQ912441 | - | - | - | - | - | - | - |
| 9904\* | *Xanthoparmelia infrapallida* | NA | USA: Arizona; Leavitt 9904 (BRY-C) | **MG695555** | **MG695656** | **MG695425** | **MG695472** | **MG695720** | **MG695911** | **MG695976** | **MG696023** | **MG695809** |
| (GenBank) | *Xanthoparmelia isidiovagans* | EUR | Spain: 9956 (MAF-Lich) | AY581094 | AY578960 | - | - | JX974718 | - | - | - | AY582330 |
| E726 | *Xanthoparmelia lineella* | sAFR | South Africa: E726 (MAF-Lich 17160) | JQ912319 | JQ912418 | - | - | - | - | - | - | - |
| 245f\* | *Xanthoparmelia lineola* | NA | USA: Arizona; EA collection 31-259 (55306 BRY-C) | **MG695556** | **MG695657** | **MG695426** | **MG695473** | **MG695721** | **MG695912** | **MG695977** | **MG696024** | **MG695810** |
| (GenBank) | *Xanthoparmelia lithophila* | AUS | Australia: New South Wales, Louwhoff 6900 (MAF-Lich) | AY581077 | AY578941 | - | - | - | - | - | - | AF351171 |
| 14438\* | *Xanthoparmelia lithophiloides* | AUS | Australia: Capital Territory, J.A. Elix 46164 (F) | **MG695557** | **MG695658** | **MG695427** | **MG695474** | **MG695722** | **MG695913** | **MG695978** | **MG696025** | **MG695811** |
| (GenBank) | *Xanthoparmelia loxodes '*1' | EUR, NA | Spain: Salamanca, Crespo & al., 7072 (MAF-Lich) | AY581076 | AY578940 | - | - | - | - | - | - | AY582313 |
| (GenBank) | *Xanthoparmelia loxodes* '2' | EUR, NA | Spain: Zamora, Blanco & Crespo 6206 (MAF-Lich) | AY581070 | AY578933 | - | - | - | - | - | - | AY582306 |
| 6698\* | *Xanthoparmelia maricopensis* | NA | USA: Arizona; J. Leavitt 001 (BRY-C) | **MG695558** | **MG695659** | **MG695428** | **MG695475** | **MG695723** | **MG695914** | **MG695979** | **MG696026** | **MG695812** |
| 14447\* | *Xanthoparmelia microcephala* | AUS | Australia: Capital Territory, J.A. Elix 46167 (F) | **MG695559** | **MG695660** | **MG695429** | **MG695476** | **MG695724** | **MG695915** | **MG695980** | **MG696027** | **MG695813** |
| (GenBank) | *Xanthoparmelia mougeotii* | NA, EUR, SA, sAFR | Spain: La Rioja, Blanco & Crespo s.n. (MAF-Lich 9916) | AY581100 | AY578967 | - | - | KR995696 | EF092156 | - | - | AY582336 |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| 907f | *Xanthoparmelia mougeotii* | NA, EUR, SA, sAFR | USA: Washington; C. Bjork 17756 (BRY-C) | HM578964 | HM579371 | HM577851 | - | HM579755 | - | - | - | - |
| 14445\* | *Xanthoparmelia mougeotina* | AUS, eAFR, SA | Australia: Capital Territory, J.A. Elix 46157 (F) | **MG695560** | **MG695661** | **MG695430** | **MG695477** | **MG695725** | **MG695916** | **MG695981** | **MG696028** | **MG695814** |
| (GenBank) | *Xanthoparmelia murina* | AUS | Australia: Norton National Park; Louwhoff, Molina & Elix 9915 (MAF-Lich) | AY581079 | AY578943 | - | - | - | - | - | - | AY582315 |
| E915 | *Xanthoparmelia neoquintaria* | sAFR, AUS | South Africa: E915 (MAF-Lich 17194) | JQ912382 | JQ912475 | - | - | - | - | - | - | MG695815 |
| E917 | *Xanthoparmelia neotumidosa* | sAFR | South Africa: E917 (MAF-Lich 16442) | HM125757 | HM125782 | - | - | - | - | - | - | HM125736 |
| (GenBank) | *Xanthoparmelia notata* | AUS | Australia: Australian Capital Territory; Elix 42648 (CANB) | AY581101 | AY578968 | - | - | - | - | - | - | AY582337 |
| 14439\* | *Xanthoparmelia parvoclystoides* | AUS | Australia: Capital Territory, J.A. Elix 46162 (F) | **MG695561** | **MG695662** | **MG695431** | **MG695478** | **MG695726** | **MG695917** | **MG695982** | **MG696029** | **MG695816** |
| (GenBank) | *Xanthoparmelia patagonica* | SA | Argentina: Lumbsch 11036a (UPS) | DQ980021 | DQ923670 | - | - | - | - | - | - | DQ923643 |
| E233 | *Xanthoparmelia perspersa* | sAFR | South Africa: E233 (MAF-Lich 15543) | GU903338 | GU903347 | - | - | - | - | - | - | GU903328 |
| E237 | *Xanthoparmelia perspersa* | sAFR | South Africa: E237 (MAF-Lich 15528) | GU992328 | HM125762 | - | - | - | - | - | - | HM125718 |
| E429 | *Xanthoparmelia perspersa* | sAFR | South Africa; E429 (MAF-Lich 15542) | GU992329 | HM125769 | - | - | - | - | - | - | HM125725 |
| E432 | *Xanthoparmelia perspersa* | sAFR | South Africa: E432 (MAF-Lich 16222-1) | GU992330 | HM125772 | - | - | - | - | - | - | HM125728 |
| E440 | *Xanthoparmelia perspersa* | sAFR | South Africa: E440 (MAF-Lich 15539) | GU992332 | HM125776 | - | - | - | - | - | - | HM125732 |
| 4607 | *Xanthoparmelia phaeophana* | eAFR, sAFR | Kenya: Eastern Prov., Kirika 4607 (MAF-Lich) | **-** | **MG695663** | **-** | **-** | **-** | **MG695918** | **-** | **-** | **MG695817** |
| 498f\* | *Xanthoparmelia plittii* | NA, EUR, SA | USA: North Carolina; Leavitt et al. (55422 BRY-C) | **MG695562** | **MG695664** | **MG695432** | **MG695479** | **MG695727** | **MG695919** | **MG695983** | **MG696030** | **-** |
| (GenBank) | *Xanthoparmelia pokornyi* | EUR | Spain: Zaragoza, (MAF-Lich 9908) | AY581075 | AY578939 | - | - | KR995697 | KR995521 | - | KP888312 | EU562707 |
| E721 | *Xanthoparmelia pseudoglabrans* | sAFR | South Africa: E721 (MAF-Lich 171610) | JQ912316 | JQ912416 | - | - | - | - | - | - | **MG695820** |
| 9497\* | *Xanthoparmelia psuedocongensis* | eAFR | Kenya: Eastern, Kirika 3285 (F) | **MG695563** | **MG695665** | **MG695433** | **MG695480** | **MG695728** | **MG695920** | **MG695984** | **MG696031** | **MG695818** |
| 9497 | *Xanthoparmelia psuedocongensis* | eAFR | Kenya: Eastern, Kirika 3285 (F) | **MG695564** | **MG695666** | **-** | **-** | **-** | **MG695921** | **-** | **-** | **MG695819** |
| 9867\* | *Xanthoparmelia pulla* | EUR, NA | Spain: Madrid, El Escoreal Divakar SP11/14E (MAF-Lich) | **MG695565** | **MG695667** | **MG695434** | **MG695481** | **MG695729** | **MG695922** | **MG695985** | **MG696032** | **MG695821** |
| E725 | *Xanthoparmelia quintarioides* | sAFR | South Africa: E725 (MAF-Lich 17159) | JQ912318 | JQ912417 | - | - | - | - | - | - | - |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| E439 | *Xanthoparmelia ralla* | sAFR | South Africa: E439 (MAF-Lich 15537) | GU903337 | GU903346 | - | - | - | - | - | - | GU903327 |
| 9517 | *Xanthoparmelia salkiboensis* | eAFR | Kenya: Central, Kirika 4372 (F) | **MG695566** | **MG695668** | **-** | **-** | **-** | **MG695923** | **-** | **-** | **MG695822** |
| 9650\* | *Xanthoparmelia salkiboensis* | eAFR | Kenya: Central, Kirika 4371 (F) | **MG695567** | **MG695669** | **MG695435** | **MG695482** | **MG695730** | **MG695924** | **MG695986** | **MG696033** | **MG695823** |
| 9650 | *Xanthoparmelia salkiboensis* | eAFR | Kenya: Central, Kirika 4371 (F) | **MG695568** | **MG695670** | **-** | **-** | **-** | **MG695925** | **-** | **-** | **MG695824** |
| 292f\* | *Xanthoparmelia saximontana nom. prov.* | NA, EUR | USA: Nevada; Leavitt (55329 BRY-C) | **MG695579** | **MG695679** | **MG695438** | **MG695485** | **MG695733** | **MG695936** | **MG695989** | **MG696036** | **MG695834** |
| E1010 | *Xanthoparmelia saximontana nom. prov.* | NA, EUR | Spain: E1010 (MAF-Lich 17181) | JQ912354 | JQ912451 | - | - | - | - | - | - | **MG695835** |
| E984 | *Xanthoparmelia saximontana nom. prov.* | NA, EUR | USA: E984 (MAF-Lich 17199) | JQ912386 | JQ912479 | - | - | - | - | - | - | **MG695836** |
| E433 | *Xanthoparmelia scitula* | sAFR | South Africa: E433 (MAF-Lich 15535-2) | GU903334 | GU903343 | - | - | - | - | - | - | GU903324 |
| (GenBank) | *Xanthoparmelia scotophylla* | AUS | Australia;  Mount Remarkable Natural Park; Elix 30650 (CANB) | AY581081 | AY578945 | - | - | - | - | - | - | AY582317 |
| (GenBank) | *Xanthoparmelia semiviridis* | AUS | Australia: New South Wales; Elix 30294 (6876 MAF-Lich) | AY581058 | AY578921 | - | - | - | - | - | - | AF351160 |
| 14435\* | *Xanthoparmelia semiviridis* | AUS | New Zealand: South Island, P.J. de Lange 12989 (F) | **MG695580** | **MG695680** | **MG695439** | **MG695486** | **MG695734** | **MG695937** | **MG695990** | **MG696037** | **MG695837** |
| E436 | *Xanthoparmelia sigillata* | sAFR | South Africa: E436 (MAF-Lich 17183) | JQ912359 | JQ912454 | - | - | - | - | - | - | **MG695838** |
| E1016 | *Xanthoparmelia sp.* 'E1016' | SA | Chile E1016 (MAF-Lich 17125) | JQ912346 | JQ912443 | - | - | - | - | - | - | **MG695841** |
| E1013 | *Xanthoparmelia squamans* | SA | Chile: E1013 (MAF-Lich 17131) | JQ912343 | JQ912440 | - | - | - | - | - | - | **MG695842** |
| 5040\* | *Xanthoparmelia stenophylla* | ASI, EUR, NA | Kazakhstan:  Karkaralinsk; Tshernyshev (BRY-C) | **MG695583** | **MG695683** | **MG695442** | **MG695489** | **MG695737** | **MG695940** | **MG695993** | **MG696040** | **MG695843** |
| E708 | *Xanthoparmelia stenophylla* | ASI, EUR, NA | Turkey: E708 (MAF-Lich 17196) | JQ912372 | JQ912467 | - | - | - | - | - | - | **MG695844** |
| E469 | *Xanthoparmelia subamplexuloides* | eAFR, sAFR | Kenya: E469 (MAF-Lich 16441) | HM125753 | HM125779 | - | - | - | - | - | - | HM125735 |
| E435 | *Xanthoparmelia subchalybaeizans* | sAFR | South Africa: E435 (MAF-Lich 15532) | HM125750 | HM125774 | - | - | - | - | - | - | HM125730 |
| E925 | *Xanthoparmelia subchalybaeizans* | sAFR | South Africa: E925 (MAF-Lich 16443) | HM125759 | HM125784 | - | - | - | - | - | - | HM125738 |
| 121f\* | *Xanthoparmelia subcumberlandia* | NA | USA: Utah; Leavitt et al. (55242 BRY-C) | **MG695584** | **MG695684** | **MG695443** | **MG695490** | **MG695738** | **MG695941** | **MG695994** | **MG696041** | **MG695845** |
| E924 | *Xanthoparmelia subdomokosii* | sAFR | South Africa: E924 (MAF-Lich 17187) | JQ912384 | JQ912477 | - | - | - | - | - | - | **MG695846** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| E758 | *Xanthoparmelia subimitatrix* | SA, AUS, sAFR | Chile: E758 (MAF-Lich 17130) | JQ912328 | JQ912424 | - | - | - | - | - | - | **MG695847** |
| E1161 | *Xanthoparmelia sublaevis* | EUR, NA | Spain: E1161 (MAF-Lich 17180) | JQ912356 | JQ912452 | - | - | - | - | - | - | **MG695848** |
| (GenBank) | *Xanthoparmelia subproxila* | AUS | Australia: Australian Capital Territory; Louwhoff, Molina & Elix (7667 MAF-Lich) | AY581074 | AY578938 | - | - | - | - | - | - | AY582311 |
| 14440\* | *Xanthoparmelia subproxila* | AUS | Australia: Capital Territory, J.A. Elix 46152 (F) | **MG695585** | **MG695685** | **MG695444** | **MG695491** | **MG695739** | **MG695942** | **MG695995** | **MG696042** | **MG695849** |
| 4645 | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Eastern Prov., Kirika 4645 (MAF-Lich) | **MG695522** | **MG695622** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| 4812 | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Eastern Prov., Kirika & Lumbsch 4812  (MAF-Lich) | **-** | **MG695628** | **-** | **-** | **-** | **MG695892** | **-** | **-** | **MG695776** |
| 4815 | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Eastern Prov., Kirika & Lumbsch 4815 (MAF-Lich) | **-** | **-** | **-** | **-** | **-** | **MG695886** | **-** | **-** | **-** |
| 4875 | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Eastern Prov., Kirika & Lumbsch 4875 (MAF-Lich) | **MG695523** | **MG695623** | **-** | **-** | **-** | **MG695887** | **-** | **-** | **MG695771** |
| 4876 | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Eastern Prov., Kirika & Lumbsch 4876 (MAF-Lich) | **-** | **MG695624** | **-** | **-** | **-** | **MG695888** | **-** | **-** | **MG695772** |
| 9496 | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Eastern, Kirika 2779 (F) | **MG695524** | **MG695625** | **-** | **-** | **-** | **MG695889** | **-** | **-** | **MG695773** |
| 9668\* | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Coast, Kirika 4583 (F) | **MG695525** | **MG695626** | **MG695414** | **MG695461** | **MG695709** | **MG695890** | **MG695965** | **MG696012** | **MG695774** |
| 9668 | *Xanthoparmelia subramigera* | eAFR, sAFR, NA, SA, AS | Kenya: Coast, Kirika 4583 (F) | **MG695526** | **MG695627** | **-** | **-** | **-** | **MG695891** | **-** | **-** | **MG695775** |
| 9348 | *Xanthoparmelia subruginosa* | eAFR, sAFR | Kenya: Eastern, Kirika 3819 (F) | **MG695530** | **MG695632** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695780** |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| 9490 | *Xanthoparmelia subruginosa* | eAFR, sAFR | Kenya: Coast, Kirika 2428 (F) | **MG695531** | **MG695633** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695781** |
| 9671 | *Xanthoparmelia subruginosa* | eAFR, sAFR | Kenya: Coast, Kirika 4486 (F) | **MG695532** | **MG695634** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695782** |
| 9686\* | *Xanthoparmelia subruginosa* | eAFR, sAFR | Kenya: Eastern, Kirika 3819 (F) | **MG695533** | **MG695635** | **MG695416** | **MG695463** | **MG695711** | **MG695896** | **MG695967** | **MG696014** | **MG695783** |
| 9686 | *Xanthoparmelia subruginosa* | eAFR, sAFR | Kenya: Eastern, Kirika 3819 (F) | **MG695534** | **MG695636** | **-** | **-** | **-** | **-** | **-** | **-** | **MG695784** |
| 14441\* | *Xanthoparmelia sustrigosa* | AUS | Australia: Capital Territory, J.A. Elix 46151 (F) | **MG695586** | **MG695686** | **MG695445** | **MG695492** | **MG695740** | **MG695943** | **MG695996** | **MG696043** | **MG695850** |
| 14437\* | *Xanthoparmelia tasmanica* | AUS | Australia: Capital Territory, J.A. Elix 46166 (F) | **MG695587** | **MG695687** | **MG695446** | **MG695493** | **MG695741** | **MG695944** | **MG695997** | **MG696044** | **MG695851** |
| (GenBank) | *Xanthoparmelia tegata* | AUS | Australia: Australian Capital Territory; Louwhoff, Molina & Elix (7523 MAF-Lich) | AY581107 | AY578975 | - | - | - | - | - | - | AY582342 |
| 14804\* | *Xanthoparmelia tegata* | AUS | Australia, Tasmania: Widhelm 2131, Grewe & Lumbsch (F) | MG695581 | MG695681 | MG695440 | MG695487 | MG695735 | MG695938 | MG695991 | MG696038 | MG695839 |
| E897 | *Xanthoparmelia tentaculina* | sAFR | South Africa: E897 (MAF-Lich 16445) | HM125756 | HM125781 | - | - | - | - | - | - | - |
| 9533 | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: Western, Kirika 4210 (F) | **MG695588** | **MG695688** | **-** | **-** | **-** | **MG695945** | **-** | **-** | **MG695853** |
| 9659 | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: Western, Kirika 4144 (F) | **MG695589** | **MG695689** | **-** | **-** | **-** | **MG695946** | **-** | **-** | **MG695854** |
| 9669\* | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: Western, Kirika 4152A (F) | **MG695592** | **MG695692** | **MG695447** | **MG695494** | **MG695742** | **MG695948** | **MG695998** | **MG696045** | **MG695857** |
| 9669 | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: Western, Kirika 4152A (F) | **MG695593** | **MG695693** | **-** | **-** | **-** | **MG695949** | **-** | **-** | **MG695858** |
| 9685 | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: Western, Kirika 4146 (F) | **MG695590** | **MG695690** | **-** | **-** | **-** | **MG695947** | **-** | **-** | **MG695855** |
| E465 | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: E465 (MAF-Lich 171730 (F) | JQ912365 | JQ912460 | - | - | - | - | - | - | - |
| E466 | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: E466 (MAF-Lich 17175) | JQ912366 | JQ912461 | - | - | - | - | - | - | **MG695852** |
| E471 | *Xanthoparmelia tinctina* 'KE' | eAFR | Kenya: E471 (MAF-Lich 17176) | JQ912368 | JQ912463 | - | - | - | - | - | - | **MG695856** |
| (GenBank) | *Xanthoparmelia tinctina* | EUR, NA | Spain: Madrid; Crespo (6070 MAF-Lich) | AY581108 | AY578976 | - | - | - | - | - | - | AY582343 |
| (GenBank) | *Xanthoparmelia tinctina* | EUR, NA | Spain: Gerona; Llimona (13861 BCN) | AY581109 | AY578977 | - | - | - | - | - | - | AY582344 |
| E246 | *Xanthoparmelia tortula* | sAFR | South Africa: E246 (MAF-Lich 16446) | **HM125742** | **HM125764** | **-** | **-** | **-** | **-** | **-** | **-** | **HM125720** |
| (GenBank) | *Xanthoparmelia transvaalensis* | EUR, sAFR | Spain: Zaragoza; Blanco & Crespo (9841 MAF-Lich) | AY581095 | AY578961 | - | - | - | - | - | - | AY582331 |
| E464 | *Xanthoparmelia tzaneenensis* | eAFR | Kenya: E464 (MAF-Lich 17172) | JQ912364 | JQ912459 | - | - | - | - | - | - | - |
| **DNA code** | **Taxon** | **S.D.** | **Voucher information** | **ITS** | **nuLSU** | **beta-tubulin** | ***GAPDH*** | ***Mcm7*** | ***RPB1*** | ***RPB2*** | ***Tsr1*** | **mtSSU** |
| 14446\* | *Xanthoparmelia verrucella* | AUS | Australia: Capital Territory, J.A. Elix 46168 (F) | **MG695594** | **MG695694** | **MG695448** | **MG695495** | **MG695743** | **MG695950** | **MG695999** | **MG696046** | **MG695859** |
| (GenBank) | *Xanthoparmelia verrucigera* 'ES' | EUR, NA | Spain: Gerona; Crespo & Molina (9920 MAF-Lich) | AY581111 | AY578979 | - | - | - | - | - | - | AY582346 |
| 9493\* | *Xanthoparmelia verrucigera* 'KE' | eAFR | Kenya: Rift Valley, Kirika 3326 (F) | **MG695595** | **MG695695** | **MG695449** | **MG695496** | **MG695744** | **MG695951** | **MG696000** | **MG696047** | **MG695860** |
| 9493 | *Xanthoparmelia verrucigera* 'KE' | eAFR | Kenya: Rift Valley, Kirika 3326 (F) | **MG695596** | **MG695696** | **-** | **-** | **-** | **MG695952** | **-** | **-** | **MG695861** |
| 9499 | *Xanthoparmelia verrucigera* 'KE' | eAFR | Kenya: Rift Valley, Kirika 3330 (F) | **MG695597** | **MG695697** | **-** | **-** | **-** | **MG695953** | **-** | **-** | **MG695862** |
| E460 | *Xanthoparmelia verrucigera* 'KE' | eAFR | Kenya: E460 (MAF-Lich 17170) | JQ912362 | JQ912457 | - | - | - | - | - | - | **MG695863** |
| (GenBank) | *Xanthoparmelia vicentei* | EUR | Spain: Salamanca; Crespo & Molina (7248 MAF-Lich) | AY581112 | AY578980 | - | - | - | - | - | - | AY582347 |
| 001f\* | *Xanthoparmelia wyomingica* | NA, AS | USA: Utah; Leavitt et al. (55151 BRY-C) | **MG695598** | **MG695698** | **MG695450** | **MG695497** | **MG695745** | **MG695954** | **MG696001** | **MG696048** | **MG695864** |
| 826f | *Xanthoparmelia wyomingica* | NA, AS | USA: Wyoming; Leavitt 826 (55501 BRY-C) | HM578953 | HM579360 | HM577841 | - | HM579746 | KF908576 | KF908755 | - | - |
| E1150 | *Xanthoparmelia xanthomelaena* | AUS | Australia: E1150 (MAF-Lich 16447) | HM125740 | HM125761 | - | - | - | - | - | - | HM125717 |