Table S4. List of Azores kelp specimens kept in reference collections

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| Whole specimens |
| Reference Collection | Campaign | Locality | Date | Depth | Species | Specimen reference in collection | Preservation medium |
| COLETA - Department of Oceanography and Fisheries (University of the Azores)Marina Carreiro-Silva (marina.pc.silva@uac.pt) | Bancos 2005 | Formigas Bank | 31/8/2005 | 55 m | *Laminaria ochroleuca* | 466, 478, 685 | Original specimen frozen for 5 months and then dried for herbarium (sample #466); small sample kept in formaldehyde 10% (sample #478) and alcohol 70% (sample #685) |
| Bancos 2011 | Formigas Bank | 16/7/2011 | 50-60 m | *Laminaria ochroleuca* | 9188 | Sample kept in formaldehyde 10% and then transferred to alcohol 70% |
| ARQDAÇO-46-P16 [longline set: 3SMA(2)P16, stratum 2] | Santa Maria island (N) | 11/6/2016 | 63 m | *Laminaria ochroleuca* | 10520 | Sample kept in formaldehyde 10% and then transferred to alcohol 70% |
| ARQDAÇO-48-P17 [longline set: 2(GRA2)P17, stratum 2] | Graciosa Island (NE) | 17/6/2017 | 66 m | *Laminaria ochroleuca* | 10613 | Frozen |
| Samples for genetic analyses |
| Reference Collection | Campaign | Locality | Date | Depth | Species | Specimen reference in collection | Preservation medium |
| Macroalgal collection at the Biology Department, Laboratory of Molecular Systematics (University of the Azores)Manuela Parente (nelaparente@hotmail.com) | BALA/PIMA Graciosa 2017 | Graciosa Island (N) | 29/6/2017 | 30-40 m | *Laminaria ochroleuca* | 8 specimens referenced MD0004244 to MD0004251 | Silica gel |
| Estrutura de Missão para a Extensão da Plataforma Continental (EMEPC)Inês Tojeira (ines.tojeira@emepc.mm.gov.pt) | Scientific cruise EMEPC/PEPC/ M@rBis2011/Bancos 2011 | Formigas Bank | 13/7/2011 | 30-40 m | *Phyllariopsis brevipes* | PM11ST62FOKB02; photo PM11ST62FOF62 | Silica gel |
| CCMAR, University of AlgarveEster Serrão (eserrao@ualg.pt) | GUE-Azores 2014 expedition | Formigas Bank | 30/06/2014 | 80 m | *Laminaria ochroleuca* | 25 samples for genetic analysis referenced UALG-GUE2014 #1 to #25 | Silica gel |
| BALA project - Graciosa 2017 | Graciosa island | 29/06/2017 | 30-40 m | *Laminaria ochroleuca* | 28 samples for genetic analysis referenced UALG-GRA2017 #1 to #28 | Silica gel |
| MARFOR project – Eastern Azores 2018 | Formigas Bank | 27/08/2018 | 47 m | *Laminaria ochroleuca* | 12 samples for genetic analysis referenced UALG-FOR2018 #1 to #12 | Silica gel |
| MARFOR project – Eastern Azores 2018 | Santa Maria | 01/09/2018 | 49 m | *Laminaria ochroleuca* | 16 samples for genetic analysis referenced UALG-SMA2018 #1 to #16 | Silica gel |