**Table 1S**. Specimens of *Saccocoelioides lamothei* analyzing; locality, host, number of specimens, GenBank accession number, and haplotype code.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Locality** | **Host** | **n** | **GenBank access** | **Haplotype** |
| **MÉXICO** |  |  |  |  |
| 1. El Huizache, Sinaloa.
 | *Mugil cephalus* | 3 | MW287796MW287797MW287798 | BXBXBX |
| 1. La Tovara, Nayarit.
 | *Dormitator latifrons**Mugil cephalus* | 48 | MW287799 MW287800 MW287801MW287802 MW287803MW287804 MW287805 MW287806MW287807 MW287808 MW287809MW287810 | BQBRBRBRBSBTBUBXBVBXBXBX |
| 1. Nuevo Vallarta, Nayarit.
 | *Dormitator latifrons* | 5 | MW287811 MW287812 MW287813MW287814 MW287815 | CDCDCDCDCD |
| 1. Quémaro, Jalisco.
 | *Dormitator latifrons**Mugil* sp. | 32 | MW287816 MW287817 MW287818MW287819 MW287820 | BPBPCBCBCB |
| 1. Playa Punta Pérula, Jalisco.
 | *Mugil* sp. | 1 | MW287821 | CB |
| 1. Cuyutlán, Colima.
 | *Dormitator latifrons* | 5 | MW287823MW287822 MW287824 MW287825MW287826 | BCBDBDBDBD |
| 1. Estero Tecuanillo, Colima.
 | *Mugil* sp. | 1 | MW287827 | AD |
| 1. Barra de Nexpa, Michoacán.
 | *Mugil* sp. | 4 | MW287831MW287828 MW287829 MW287830 | CECECECE |
| 1. Playa Las Peñitas, Guerrero.
 | *Mugil* sp. | 12 | MW287834MW287832 MW287835 MW287838MW287836 MW287837MW287833 MW287839MW287840 MW287841 MW287842MW287843 | CEBZCGCACBCBCBCBCBCBCBCB |
| 1. Tres Palos, Guerrero.
 | *Dormitator latifrons* | 2 | MW287784MW287785 | BJBJ |
| 1. Marquelia, Guerrero.
 | *Mugil curema* | 2 | MW287844 MW287845 | BMBN |
| 1. Río Salado, Oaxaca.
 | *Poeciliopsis gracilis**Poecilia sphenops* | 21 | MW287846 MW287847MW287848 | CCCCCC |
| 1. San José de las Flores, Oaxaca.
 | *Profundulus* sp.*Sicydium multipunctatum* | 33 | MW287852 MW287853 MW287854MW287850MW287849 MW287851 | AKALAMAOANAN |
| 1. Chacahua, Oaxaca.
 | *Dormitator latifrons* | 10 | MW287786MW287787MW287788MW287790MW287789MW287791MW287792MW287794MW287793MW287795 | APAPAPAPAQARASAUATAT |
| 1. Barra de Navidad, Oaxaca.
 | *Mugil cephalus* | 2 | MW287855 MW287856 | AIAJ |
| 1. Matías Romero, Oaxaca.
 | *Poecilia mexicana* | 1 | MW287857 | CE |
| 1. La Ventosa, Oaxaca.
 | *Mugil cephalus* | 3 | MW287861MW287859 MW287860 | CECCCC |
| 1. Pijijiapan, Chiapas.
 | *Dormitator latifrons* | 2 | MW287862 MW287863 | BKBL |
| 1. Puerto Chiapas, Chiapas.
 | *Mugil* sp. | 5 | MW287864 MW287865 MW287866MW287868MW287867 | AZAZBABA BB |
| **GUATEMALA** |  |  |  |  |
| 1. Río Nahualate.
 | *Poeciliopsis gracilis**Poecilia mexicana* | 21 | MW287871 MW287872MW287870 | AVAXAY |
| 1. Puerto San José.
 | *Mugil curema* | 2 | MW287873 MW287874 | BABA |
| 1. Las Lisas.
 | *Dormitator latifrons* | 2 | MW287875 MW287876 | BYBY |
| **EL SALVADOR** |  |  |  |  |
| 1. Río Sunza.
 | *Poecilia mexicana**Sicydium* sp. | 22 | MW287880MW287879MW287877 MW287878 | CFCFCFCF |
| 1. Río Banderas.
 | *Agonostomus monticola**Awaous banana* | 23 | MW287883 MW287884MW287881 MW287882 MW287885 | AEAFAGAHAH |
| 1. Bahía de San Antonio.
 | *Dormitator latifrons* | 3 | MW287886 MW287887 MW287888 | AABYCB |
| **HONDURAS** |  |  |  |  |
| 1. Río Choluteca, Honduras.
 | *Poecilia mexicana* | 2 | MW287889 MW287890 | ABAC |
| **NICARAGUA** |  |  |  |  |
| 1. Río Tamarindo, Nicaragua.
 | *Agonostomus monticola**Poecilia gillii**Sicydium* sp. | 223 | MW287894 MW287895 MW287896MW287897MW287891 MW287893MW287892 | BEBFBGBHBFBF BI |
| 1. Río Mico, Nicaragua.
 | *Poecilia gillii* | 3 | MW287898 MW287899 MW287900 | AZAZAZ |
| **COSTA RICA** |  |  |  |  |
| 1. Río Ciruelas.
 | *Sicydium salvini**Poecilia gillii* | 22 | MW287901 MW287902MW287903 MW287904 | BOBOBOBO |