**Table 1.** Specimens analysed in this study; localities (in parenthesis are localities sampled in this study and correspond with Figure 1); host species; host family and GenBank accession numbers of each molecular marker. Sequences in bold were generated in this study.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Locality** | **Host** | **Family** | **LSU** | ***cox* 1** | ***nad* 1** | **References** |
| *Saccocoelioides olmecae* | Tamiahua, Veracruz, México  21° 15’ 49’’ N, 97° 27’ 41’’ W | *Dormitator maculatus* | Eleotridae | KU061128 | MK749584 | – | Andrade-Gómez *et al*. 2016 / Andrade-Gómez *et al*. 2019 |
| *Saccocoelioides chauhani* | Catemaco, Veracruz, México  18° 25’ 0’’ N, 95° 7’ 0’’ W | *Astyanax aeneus* | Characidae | KU061117 | MK749589 | – |  |
| *Saccocoelioides macrospinosus* | Catemaco, Veracruz, México | *Poeciliopsis catemaco* | Poeciliidae | – | MK749566 | – | Andrade-Gómez *et al*. 2019 |
|  | Alvarado, Veracruz, México  18° 46’ 47’’ N, 95° 44’ 50’’ W | *Mugil curema* | Mugilidae | MK749169 | – | – |  |
| *Saccocoelioides orosiensis* | Tlacotalpan,Veracruz, México  18° 36’ 0’’ N, 95° 39’ 0’’ W | *Poecilia sphenops* | Poeciliidae | – | MK749602 | – |  |
| *Saccocoelioides orosiensis* | Río Ciruelas, Costa Rica  10° 3’ 38’’ N, 84° 45’ 31’’ W | *Poecilia gilii* | Poeciliidae | – | MK749590 | – |  |
| *Saccocoelioides cichlidorum* | Río Torsuani, Nicaragua  11° 47’ 06’’ N, 83° 52’ 38’’ W | *Paraneetroplus*  *maculicauda* | Cichlidae | – | MK749574 | – |  |
| *Saccocoelioides tkachi* | Palo de Arquito, Nicaragua  11° 7’ 12’’ N, 84° 36’ 5’’ W | *Astyanax aeneus* | Characidae | – | MK749577 | – |  |
| *Saccocoelioides tkachi* | Río Pérez, Nicaragua  11° 45’ 0.8’’ N, 84° 14’ 11.5’’ W | *Astyanax aeneus* | Characidae | – | MK749578 | – |  |
| *Saccocoelioides tkachi* | Río Tempisque, Costa Rica  10° 47’ 21’’ N, 85° 33’ 03’’ W | *Astyanax aeneus* | Characidae | MG925122 | – | – | Curran *et al*. 2018 |
| *Saccocoelioides cichlidorum* | Río Animas, Costa Rica  11° 02’ 54’’ N, 85° 35’ 09’’ W | *Archocentrus nigrofasciatus* | Cichlidae | MG925106 | – | – |  |
| *Saccocoelioides orosiensis* | Río Tempisque, Costa Rica | *Poecilia gilii* | Poeciliidae | MG925116 | – | – |  |
| *Saccocoelioides magnus* | Río de la Plata, Argentina  34° 48’ 48’’ S, 57° 58’ 25’’ W | *Cyphocarynx voga* | Characidae | MG925112 | – | – |  |
| *Saccocoelioides elongatus* | Río de la Plata, Argentina | *Prochilodus lineatus* | Prochilodontidae | MG925108 | – | – |  |
| *Saccocoelioides nanii* | Los Talas, Argentina  34° 53’ 56’’ S, 57° 48’ 17’’ W | *Prochilodus lineatus* | Prochilodontidae | MG925114 | – | – |  |
| *Saccocoelioides sogandaresi* | Texas, United States  27° 30’ 29’’ N, 97° 50’ 08’’ W | *Poecilia latipinna* | Poeciliidae | MG925120 | – | – |  |
| *Saccocoelioides beauforti* | North Carolina, United States  34° 11’ 05’’ N, 77° 48’ 52’’ W | *Mugil cephalus* | Mugilidae | MG925104 | – | – |  |
| *Saccocoelioides lamothei* | Río Tempisque, Costa Rica  10° 47’ 21’’ N, 85° 33’ 03’’ W | *Poecilia gilii* | Poeciliidae | MG925110 | – | – |  |
| *Saccocoelioides lamothei* | (10) Tres Palos, Guerrero, México  16° 48’ 0’’ N, 99° 47’ 0’’ W | *Dormitator latifrons* | Eleotridae | KU061120–21 | MK749571–72 | **MW287784-85** | Andrade-Gómez *et al*. 2016 / Andrade-Gómez *et al*. 2019 / This study |
| *Saccocoelioides lamothei* | (13) Chacahua, Oaxaca, México  15° 58’ 4.73’’ N, 97° 40’ 55.44’’ W | *Dormitator latifrons* | Eleotridae | KU061122–24  **MW282051-53** | **MW287346-47** | **MW287786-95** | Andrade-Gómez *et al*. 2016 / This study |
| *Saccocoelioides lamothei* | (1) El Huizache, Sinaloa, México  22° 54’ 29’’ N, 106° 3’ 39.48’’ W | *Mugil cephalus* | Mugilidae | **MW282054** | **MW283184** | **MW287796-98** | This study |
| *Saccocoelioides lamothei* | (2) La Tovara, Nayarit, México  21° 32’ 43.6’’ N, 105° 16’ 24.1’’ W | *Dormitator latifrons*  *Mugil cephalus* | Eleotridae  Mugilidae | **MW282055**  **MW282056** | –  – | **MW287799-802**  **MW287803-10** |  |
| *Saccocoelioides lamothei* | (3) Nuevo Vallarta, Nayarit, México  20° 41’ 57’’ N, 105° 17’ 56.7’’ W | *Dormitator latifrons* | Eleotridae | **MW282057-58** | **MW283185-87** | **MW287811-15** |  |
| *Saccocoelioides lamothei* | (4) Quémaro, Jalisco, México  19° 38’ 40.2’’ N, 105° 12’ 55.5’’ W | *Dormitator latifrons*  *Mugil* sp. | Eleotridae  Mugilidae | **MW282059-60**  **MW282061-62** | **MW283188-89**  **MW283190** | **MW287816-18**  **MW287819-20** |  |
| *Saccocoelioides lamothei* | (5) Playa Punta Pérula, Jalisco, México  19° 35’ 16.7’’ N, 105° 8’ 7.526’’ W | *Mugil* sp. | Mugilidae | **MW282063** | – | **MW287821** |  |
| *Saccocoelioides lamothei* | (6) Cuyutlán, Colima, México  18° 54’ 45.39’’ N, 104° 3’ 36.74’’ W | *Dormitator latifrons* | Eleotridae | **MW282064-65** | **MW283191-94** | **MW287822-26** |  |
| *Saccocoelioides lamothei* | (7) Estero Tecuanillo, Colima, México  18° 49’ 2.34’’ N, 103° 53’ 54.70’’ W | *Mugil* sp. | Mugilidae | **MW282066** | **MW283195** | **MW287827** |  |
| *Saccocoelioides lamothei* | (8) Barra de Nexpa, Michoacán, México  18° 5’ 0.24’’ N, 102° 47’ 18.366’’ W | *Mugil* sp. | Mugilidae | **MW282067-68** | – | **MW287828-31** |  |
| *Saccocoelioides lamothei* | (9) Playa Las Peñitas, Guerrero, México  17° 59’ 16.718’’ N, 102° 2’ 5.01’’ W | *Mugil* sp. | Mugilidae | **MW282069-79** | **MW283196-203** | **MW287832-43** |  |
| *Saccocoelioides lamothei* | (11) Marquelia, Guerrero, México  16° 33’ 19.75’’ N, 98° 48’ 38.89’’ W | *Mugil curema* | Mugilidae | **MW282080-81** | – | **MW287844-45** |  |
| *Saccocoelioides lamothei* | (12) Río Salado, Oaxaca, México  18° 3’ 52.7’’ N, 97° 6’ 58.399’’ W | *Poeciliopsis gracilis*  *Poecilia sphenops* | Poeciliidae | **MW282082-84**  **MW282085** | **MW283204**  **MW283205** | **MW287846-47**  **MW287848** |  |
| *Saccocoelioides lamothei* | (14) San José de las Flores, Oaxaca, México  16° 24’ 21.5’’ N, 97° 44’ 22.599’’ W | *Sicydium multipunctatum*  *Profundulus sp.* | Gobiidae  Profundulidae | **MW282090-91**  **MW282086-88** | **MW283206-07**  – | **MW287849-51 MW287852-54** |  |
| *Saccocoelioides lamothei* | (15) Barra de Navidad, Oaxaca, México  15° 48’ 39’’ N, 97° 1’ 10.999’’ W | *Mugil cephalus* | Mugilidae | **MW282092-93** | **MW283208** | **MW287855-56** |  |
| *Saccocoelioides lamothei* | (16) Matías Romero, Oaxaca, México  16° 47’ 30.8’’ N, 95° 0’ 59’’ W | *Poecilia mexicana* | Poeciliidae | **MW282094** | **MW283209** | **MW287857** |  |
| *Saccocoelioides lamothei* | (17) La Ventosa, Oaxaca, México  16° 11’ 42.67’’ N, 95° 10’ 40.79’’ W | *Mugil cephalus* | Mugilidae | – | **MW283210** | **MW287859-61** |  |
| *Saccocoelioides lamothei* | (18) Pijijiapán, Chiapas, México  15° 33’ 12’’ N, 93° 16’ 55.999’’ W | *Dormitator latifrons* | Eleotridae | – | **MW283211** | **MW287862-63** |  |
| *Saccocoelioides lamothei* | (19) Puerto Chiapas, Chiapas, México  14° 42’ 36.46’’ N, 92° 24’ 30.91’’ W | *Mugil* sp. | Mugilidae | **MW282095** | – | **MW287864-68** |  |
| *Saccocoelioides lamothei* | (20) Río Nahualate, Guatemala  14° 5’ 19.039’’ N, 91° 31’ 28.87’’ W | *Poecilia mexicana*  *Poeciliopsis gracilis* | Poeciliidae | **MW282096-97**  **MW282098-99** | –  **MW283212** | **MW287869-70**  **MW287871-72** |  |
| *Saccocoelioides lamothei* | (21) Puerto San José, Guatemala  13° 55’ 49.375’’ N, 90° 50’ 2.98’’ W | *Mugil curema* | Mugilidae | **MW282100-01** | **MW283213-14** | **MW287873-74** |  |
| *Saccocoelioides lamothei* | (22) Las Lisas, Guatemala  13° 49’ 19.942’’ N, 90° 16’ 2.23’’ W | *Dormitator latifrons* | Eleotridae | **MW282102** | **MW283215** | **MW287875-76** |  |
| *Saccocoelioides lamothei* | (23) Río Sunza, El Salvador  13° 38’ 14’’ N, 89° 50’ 40.99’’ W | *Sicydium* sp*.*  *Poecilia mexicana* | Gobiidae  Poeciliidae | **MW282103-04**  **MW282105** | –  **MW283216** | **MW287877-78**  **MW287879-80** |  |
| *Saccocoelioides lamothei* | (24) Río Banderas, El Salvador  13° 36’ 2.618’’ N, 89° 50’ 26.19’’ W | *Awaous banana*  *Dajaus monticola* | Gobiidae  Mugilidae | **MW282106-07**  **MW282108-09** | **MW283217**  **MW283218-19** | **MW287881-82**  **MW287883-85** |  |
| *Saccocoelioides lamothei* | (25) Bahía de San Antonio, El Salvador  13° 10’ 12.65’’ N, 88° 16’ 29.87’’ W | *Dormitator latifrons* | Eleotridae | **MW282110-12** | **MW283220-22** | **MW287886-88** |  |
| *Saccocoelioides lamothei* | (26) Río Choluteca, Honduras  13° 18’ 57’’ N, 87° 11’ 23.999’’ W | *Poecilia mexicana* | Poeciliidae | **MW282113-14** | **MW283223** | **MW287889-90** |  |
| *Saccocoelioides lamothei* | (27) Río Tamarindo, Nicaragua  12° 14’ 33.82’’ N, 86° 42’ 57.26’’ W | *Sicydium* sp.  *Dajaus monticola*  *Poecilia gillii* | Gobiidae  Mugilidae  Poeciliidae | **MW282115-16**  **MW282117**  **MW282118-19** | **MW283224-25**  –  **MW283226** | **MW287891-93**  **MW287894-95**  **MW287896-97** |  |
| *Saccocoelioides lamothei* | (28) Río Mico, Nicaragua  12° 4’ 32.016’’ N, 86° 31’ 47.95’’ W | *Poecilia gillii* | Poeciliidae | **MW282120** | **MW283227** | **MW287898-900** |  |
| *Saccocoelioides lamothei* | (29) Río Ciruelas, Costa Rica  10° 3’ 51.576’ N, 84° 9’ 49.646’’ W | *Sicydium salvini*  *Poecilia gillii* | Gobiidae  Poeciliidae | **MW282121-22**  **MW282123** | –  **MW283228** | **MW287901-02**  **MW287903-04** |  |