**Supp. file 2.** Haplotypes recorded with the *CO1* gene of the five putative species of the genus *Latrodectus* from Mexico. NA= Not Applicable.

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| **Species** | **Haplotype** | **LATLAX code** | **Country** | **State** |
| --- | --- | --- | --- | --- |
| ***Latrodectus mactans*** |  |  |  |  |
|  | m1 | AY383072 | United States | Mississippi |
|  |  | AY383054 | United States | North Carolina |
|  |  | AY231046 | United States | North Carolina |
|  |  | DQ127318 | NA | NA |
|  | m2 | DQ127321 | NA | NA |
|  |  | ARA-0816 | Mexico | Tamaulipas |
|  |  | ARA-0942 | Mexico | San Luis Potosi |
|  |  | ARA-0944 | Mexico | San Luis Potosi |
| ***Latrodectus occidentalis* sp. nov.** | |  |  |  |
|  | o1 | ARA-0550 | Mexico | Guerrero |
|  | o2 | ARA-0559 | Mexico | Jalisco |
|  | o3 | ARA-0694 | Mexico | Jalisco |
|  | o3 | ARA-0701 | Mexico | Jalisco |
|  |  | ARA-0702 | Mexico | Jalisco |
|  |  | ARA-0711 | Mexico | Colima |
|  |  | ARA-0712 | Mexico | Colima |
|  | o4 | ARA-0696 | Mexico | Jalisco |
|  |  | ARA-0708 | Mexico | Guerrero |
|  |  | ARA-0709 | Mexico | Guerrero |
|  |  | ARA-0958 | Mexico | Guanajuato |
|  | o5 | ARA-0697 | Mexico | Jalisco |
|  | o6 | ARA-0698 | Mexico | Jalisco |
|  | o7 | ARA-0699 | Mexico | Jalisco |
|  | o8 | ARA-0703 | Mexico | Michoacan |
|  |  | ARA-0706 | Mexico | Michoacan |
|  | o9 | ARA-0704 | Mexico | Michoacan |
|  | o10 | ARA-0705 | Mexico | Michoacan |
|  |  | ARA-0707 | Mexico | Michoacan |
|  | o11 | ARA-0957 | Mexico | Guanajuato |
|  | o12 | ARA-0964 | Mexico | Guanajuato |
| ***Latrodectus* sp. 1** |  |  |  |  |
|  | Hap1 | ARA-0935 | Mexico | Queretaro |
|  | Hap2 | ARA-0940 | Mexico | Queretaro |
|  |  | ARA-0954 | Mexico | Queretaro |
|  | Hap3 | ARA-0941 | Mexico | Queretaro |
| ***Latrodectus* sp. 2** |  |  |  |  |
|  | hap1 | ARA-0495 | Mexico | Tlaxcala |
|  |  | ARA.0496 | Mexico | Tlaxcala |
|  |  | ARA-0499 | Mexico | Tlaxcala |
|  | hap2 | ARA-0496 | Mexico | Tlaxcala |
|  | hap3 | ARA-0544 | Mexico | Oaxaca |
|  | hap4 | ARA-0554 | Mexico | Hidalgo |
|  | hap5 | ARA-0556 | Mexico | Hidalgo |
|  |  | ARA-0557 | Mexico | Hidalgo |
|  |  | ARA-0955 | Mexico | Guanajuato |
|  |  | ARA-0956 | Mexico | Guanajuato |
|  |  | ARA-0959 | Mexico | Guanajuato |
|  |  | ARA-0960 | Mexico | Queretaro |
|  | hap6 | ARA-0558 | Mexico | Hidalgo |
|  | hap7 | ARA-0675 | Mexico | Sinaloa |
|  |  | ARA-0676 | Mexico | Sinaloa |
|  | hap8 | ARA-0812 | Mexico | Durango |
|  |  | ARA-0813 | Mexico | Durango |
|  | hap9 | ARA-0814 | Mexico | Durango |
|  |  | ARA-0819 | Mexico | Durango |
|  | hap10 | ARA-0938 | Mexico | Queretaro |
|  | hap11 | ARA-0945 | Mexico | San Luis Potosi |
|  | hap12 | ARA-0947 | Mexico | San Luis Potosi |
|  | hap13 | ARA-0962 | Mexico | Guanajuato |
| ***L. hesperus*** |  |  |  |  |
|  | h1 | ARA-0562 | Mexico | Coahuila |
|  | h2 | ARA-0670 | Mexico | Baja california |
|  | h3 | ARA-0671 | Mexico | Baja california |
|  | h4 | ARA-0672 | Mexico | Baja california |
|  | h5 | ARA-0673 | Mexico | Baja california |
|  |  | ARA-0674 | Mexico | Baja california |
|  | h6 | ARA-0677 | Mexico | Sinaloa |
|  |  | ARA-0680 | Mexico | Baja California Sur |
|  | h7 | ARA-0679 | Mexico | Baja California Sur |
|  | h8 | ARA-0681 | Mexico | Baja California Sur |
|  | h9 | ARA-0682 | Mexico | Baja California Sur |
|  |  | ARA-0686 | Mexico | Sonora |
|  |  | ARA-0693 | Mexico | Baja California Sur |
|  | h10 | ARA-0683 | Mexico | Baja California Sur |
|  | h11 | ARA-0684 | Mexico | Baja California Sur |
|  | h12 | ARA-0685 | Mexico | Baja California Sur |
|  | h13 | ARA-0687 | Mexico | Sonora |
|  | h14 | ARA-0690 | Mexico | Sonora |
|  | h15 | ARA-0692 | Mexico | Baja California Sur |
|  | h16 | ARA-0815 | Mexico | Durango |
|  | h17 | ARA-0817 | Mexico | Durango |
|  | h18 | ARA-0936 | Mexico | Queretaro |
|  |  | ARA-0937 | Mexico | Queretaro |
|  | h19 | ARA-0939 | Mexico | Queretaro |
|  |  | ARA-0946 | Mexico | San Luis Potosi |
|  |  | ARA-0948 | Mexico | San Luis Potosi |
|  |  | ARA-0949 | Mexico | San Luis Potosi |
|  |  | ARA-0950 | Mexico | San Luis Potosi |
|  |  | ARA-0961 | Mexico | Queretaro |
|  | h20 | ARA-0951 | Mexico | San Luis Potosi |
|  | h21 | ARA-0952 | Mexico | San Luis Potosi |
|  | h22 | ARA-0953 | Mexico | San Luis Potosi |
|  | h23 | ARA-0963 | Mexico | Guanajuato |