Supplementary Table 1. Summary of *S. lupi* 18S sequences used in the analysis.

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| --- | --- | --- | --- | --- |
| Species | Country of origin | Host | Internal code | Accession number |
| *Spirocerca* sp*.* | USA | Island fox | USA | AY751498.1 |
| *S. lupi* | Hungary | Dog | Hungary\_AA | MH634011 |
|  | Hungary | Dog | Hungary\_CA | MH634012 |
|  | Hungary | Dog | Hungary\_DA | MH634013 |
|  | Israel | Dog | Specimen\_B | MH633996.1 |
|  | Israel | Dog | Specimen\_C | MH633997.1 |
|  | Israel | Dog | Specimen\_E | MH633998.1 |
|  | Israel | Dog | Specimen\_F | MH633999 |
|  | Israel | Dog | Specimen\_G | MH634000.1 |
|  | Israel | Dog | Specimen\_H | MH634001 |
|  | India | Dog | Specimen\_M, | MH634006.1 |
|  | India | Dog | Specimen\_N, | MH634007.1 |
|  | India | Dog | Specimen\_O, | MH634008.1 |
|  | India | Dog | Specimen\_P | MH634009.1 |
|  | India | Dog | Specimen Q | MH634010.1 |
|  | South Africa | Dog | Specimen\_I, | MH634002.1 |
|  | South Africa | Dog | Specimen\_J, | MH634003.1 |
|  | South Africa | Dog | Specimen\_K | MH634004.1 |
|  | South Africa | Dog | Specimen\_L | MH634005.1 |
|  | Costa Rica | Dog | Isolate\_CR1 | OQ335955 |
|  | Costa Rica | Dog | Isolate\_CR2 | OQ335956 |
|  | Costa Rica | Dog | Isolate\_CR3 | OQ335957 |
|  | Costa Rica | Dog | Isolate\_CR4 | OQ335958 |
|  | Costa Rica | Dog | Isolate\_CR5 | OQ335959 |
| *S. vulpis* | Spain | Red fox | Spain\_76 | MG957120 |
|  | Bosnia and Herzegovina | Red fox | Bosnia\_and\_Herzegovina | MH634014 |