

1 S3 Table. Characteristics of the sequences and the structure of each primer and PCR reaction conditions.

MLST	Target	Primer	Primer Sequence	Product size	Characteristics	PCR concentrations	PCR cycling conditions	Reference
Classical MLST	<i>arf</i> (ADP-ribosylation factor)	arf1	AGAATATGGGGCAAAAGGA	470	The sequence is composed by the exon 2 covering the region from 1 to 98 bp and exon 3 from 290 to 478 bp, these are separated by an intron region.	Buffer / 1X MgCl2 / 1,5 mM DNTPs / 0,2 mM	94°C / 3 min	Kasuga, Taylor, and White 1999
		arf2	CGCAATTCATCTTCGTTGAG					
	<i>H-anti</i> (H antigen precursor gene)	H-anti3	CGCAGTCACCTCCATACTATC	412	The sequence is composed by 3 CDS covering the regions from 1 to 112 bp, 233 to 330 bp and 387 to 413 bp, separated by two intron regions.	Forward Primer / 0,2 mM Reverse Primer / 0,2 mM	94°C / 15 seg 54,8°C / 30 seg 72°C / 1 min	Kasuga, Taylor, and White 2000
		H-anti4	GCGCCGACATTAACCC					
	<i>ole</i> (Delta-9 fatty acid desaturase)	ole3	TTTAAACGAAGCCCCCACGG	425	The sequence is composed by 2 CDS covering the regions from 1 to 273 bp and 368 to 428 bp and the intron region from 254 to 367 bp.	DNA Taq / 1 U DNA / 2 µl Reaction volume / 50 µl	72°C / 5 min 12°C / ∞	Kasuga, Taylor, and White 2001
		ole4	CACCACCTCCAACAGCAGCA					
	<i>tub1</i>	<i>tub1</i>	GGTGGCCAAATCGCAAACTC	278	The sequence is			Kasuga,

	(Alpha-tubulin)	tub2	GGCAGCTTCCGTTCCCTCAGT		composed by 2 CDS which cover the regions from 1 to 10 bp and 119 to 145 bp and 2 intron regions from 11 to 118 bp and 146 to 263 bp.			Taylor, and White 2002
ITS (Internal transcribed spacers 1 rRNA genes)	ITS4	ITS5	TCCTCCGCTTATTGATATGC	656	This region contains the partial sequence of 18S ribosomal RNA gene; the complete sequence of the internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2; and the partial sequence of 28S ribosomal RNA gene.			Kasuga, Taylor, and White 2003
			GGAAGTAAAAGTCGTAACAAGG					
Diagnostic PCR	<i>Hcp100</i> (Protein 100 KDa Human - like)	HcI	GCGTTCCGAGCCTTCCACCTCAAC	319	The sequence is a partial CDS region. In the sequences, the CDS cover all region.	Buffer / 1X	94°C / 5 min	Bialek et al. 2002
		HcII	ATGTCCCATCGGGCGCCGTGTAGT			MgCl2 / 2 mM	94°C / 30 seg	
						DNTPs / 0,2 mM	66°C / 30 seg	
						Forward Primer / 0,2 mM	72°C / 1	
						Reverse Primer		

					/ 0,2 mM DNA Taq / 1 U DNA / 2 µl Reaction volume / 50 µl	min 72°C / 5 min 12°C / ∞	
SCAR 220	1281-1283-220-F	CATTGTTGGAGGAAACCTGCT	220	Both sequences were selected as characteristic inside <i>H. capsulatum</i> genome. But SCAR 230 is a partial CDS region from the alpha-amylase A.	Buffer / 1X MgCl2 / 2,5 mM DNTPs / 0,2 mM	94°C / 5 min 94°C / 30	Frías De León et al. 2012
	1281-1283-220-R	GAGCTGCAGGATGTTGTTG			Forward Primer / 0,2 mM Reverse Primer / 0,2 mM DNA Taq / 1 U DNA / 2 µl Reaction volume / 50 µl	seg 52°C / 30 seg 72°C / 1 min 72°C / 5 min 12°C / ∞	
SCAR 230	1281-1283-230-F	GGAGCCATGACGTTAACATGG	230	The sequence is a partial CDS from the region codifying the <i>H. capsulatum</i> Catalase B. In the sequences, the CDS cover all region.	Buffer / 1X MgCl2 / 1,5 mM DNTPs / 0,2 mM	95°C / 5 min 94°C / 1 min 60°C / 1 min	Frías De León et al. 2013
	1281-1283-230-R	TATTGCCAATGGGTTTGTCA			Forward Primer / 0,2 mM Reverse Primer / 0,2 mM DNA Taq / 1 U	72°C / 1 min 72°C / 5 min	
<i>M antigen</i> (<i>M antigen gene</i>)	Msp1F	ACAAGAGACGACGGTAGCTTCACG	318	The sequence is a partial CDS from the region codifying the <i>H. capsulatum</i> Catalase B. In the sequences, the CDS cover all region.	Buffer / 1X MgCl2 / 1,5 mM DNTPs / 0,2 mM	95°C / 5 min 94°C / 1 min 60°C / 1 min	Ohno et al. 2013
	Msp2R	ACCAGCGGCCATAAGGACGTC			Forward Primer / 0,2 mM Reverse Primer / 0,2 mM DNA Taq / 1 U	72°C / 1 min 72°C / 5 min	

						DNA / 2 µl Reaction volume / 50 µl	12°C / ∞	
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- 2 Reagents were as follow the Deoxynucleoside triphosphates from Thomas Scientific, Swedesboro, NJ., the synthesis of the primers by
3 Integrated DNA Technologies (IDT, Coralville, IA, USA), and the Taq polymerase form Thomas Scientific, Swedesboro, NJ.