

**Table S1.** Fungal isolates from *Halophila ovalis* rhizosphere soil with their GenBank Accession Numbers and BLAST matches based on ITS sequences.

Strain ID	GenBank Code	BLASTn Search			
		Best Match(es)	Reference Accession Code	Overlap length	Identity (%)
HOMAR11	PP350744	<i>Penicillium citrinum</i>	JN851020.1	933	99.80
HOMAR12	PP350745	<i>Penicillium subrubescens</i>	OM372818.1	981	99.45
HOMAR13	PP350746	<i>Aspergillus oryzae</i>	MK748312.1	1000	99.46
HOMAR14	PP350747	<i>Penicillium citrinum</i>	MH059536.1	922	99.80
HOMAR15	PP350748	<i>Aspergillus aculeatus</i>	KM520043.1	974	99.81
HOMAR16	PP350749	<i>Trichoderma harzianum</i>	MZ681937.1	1055	99.83
HOMAR17	PP350750	<i>Nectria</i> sp.	MN701668.1	928	99.61
HOMAR18	PP350751	<i>Coprinellus disseminatus</i>	OP735466.1	1188	99.69
HOMAR19	PP350752	<i>Aspergillus tubingensis</i>	MT079171.1	1024	99.82
HOMAR20	PP350753	<i>Aspergillus westerdijkiae</i>	KP278178.1	957	99.62
HOMAR21	PP350754	<i>Penicillium</i> sp.	KX067851.1	970	99.81
		<i>Penicillium mexicanum</i>	OQ048471.1	970	99.81
HOMAR22	PP350755	<i>Trichoderma</i> sp.	MW940741.1	1029	100
		<i>Trichoderma harzianum</i>	KT783517.1	1026	100
HOMAR23	PP350756	<i>Penicillium citrinum</i>	OM279522.1	926	99.61
HOMAR24	PP350757	<i>Trichoderma harzianum</i>	MK377316.1	1050	99.65
HOMAR25	PP350758	<i>Penicillium</i> sp.	OK180504.1	994	100
		<i>Penicillium steckii</i>	OK605032.1	987	99.81
HOMAR26	PP350759	Fungal sp.	MF375408.1	1002	99.28
		<i>Penicillium brefeldianum</i>	KM243921.1	992	99.63

In isolate ID, HO indicates the initial letters of the seagrass species *Halophila ovalis*, MAR represents the month in which the sample was collected. The last Arabic numerals the isolated strains.