

Table S1. Bacterial amplicon sequencing variants (ASVs) detected (●) in the samples of dried sea fennel spices. For an explanation of the drying methods and batches used, see Table 1.

Sample	Batch	<i>Bacillus</i>	<i>Brachybacterium</i>	Caulobacteraceae	<i>Devosia</i>	<i>Erwinia</i>	Gaiellaceae	Methylobacteriaceae	Microbacteriaceae	<i>Propionibacterium</i>	<i>Pseudomonas</i>	Rhodobacteraceae	<i>Sphingomonas</i>
OD	1									●			
	2			●		●	●	●	●		●	●	
MD	1	●						●					●
	2							●					●
FD	1		●	●	●								
	2												●

Table S2. Fungal amplicon sequencing variants (ASVs) detected (●) in the dried sea fennel samples. For an explanation of the drying methods and batches used, see Table 1.

Drying treatment	Batch	<i>Alternaria</i>	<i>Aureobasidium</i>	<i>Bensingtonia</i>	<i>Cladosporium</i>	<i>Cryptococcus</i>	<i>Cystobasidium</i>	<i>Debaryomyces</i>	<i>Filobasidium</i>	<i>Kondoa</i>	<i>Penicillium</i>	<i>Protomyces</i>	<i>Rhodotorula</i>	<i>Sporobolomyces</i>	<i>Symmetrospora</i>	<i>Taphrina</i>	<i>Thelebolus</i>	<i>Tilletiopsis</i>	<i>Vishniacozyma</i>
RTD	1	●	●	●	●	●	●		●	●		●	●	●	●	●	●		●
	2	●		●	●	●	●		●	●	●			●	●		●	●	●
OD	1	●	●	●	●	●	●		●	●		●	●	●	●	●	●		●
	2	●	●	●	●		●		●	●		●	●	●	●	●	●		●
MD	1	●	●	●	●	●	●		●	●		●	●	●	●	●	●	●	●
	2	●	●	●	●	●	●		●	●		●	●	●	●	●	●	●	●
FD	1		●	●	●	●	●		●	●		●	●	●	●		●		●
	2			●	●			●				●		●	●				●