

Table S1. Presence (○) and absence (×) of M1PDH and M2DH in different *S. aureus* strains, plant, and fungi.

Strains/organisms	M1PDH	M2DH	GenBank Accession No. or References
<i>S. aureus</i> MRSA252	○	×	BX571856.1
<i>S. aureus</i> 13420	○	×	CP021141.1
<i>S. aureus</i> 0201753-2	○	×	CP021352.1
<i>S. aureus</i> AR_0470	○	×	CP029653.1
<i>S. aureus</i> CFSAN007896	○	×	CP020467.1
<i>S. aureus</i> CFSAN018749	○	×	CP028190.1
<i>S. aureus</i> NRS143	○	×	CP026071.1
<i>S. aureus</i> Seattle 1945 isolate G478	○	×	CP021907.1
<i>S. aureus</i> SJTUF_J27	○	×	CP019117.1
<i>S. aureus</i> FORC_001	○	×	CP009554.1
<i>S. aureus</i> ATCC 25923	○	×	CP009361.1
<i>S. aureus</i> NRS484	○	×	CP026066.1
<i>S. aureus</i> CFSAN007847	○	×	CP017684.1
<i>S. aureus</i> TCH60	○	×	CP002110.1
<i>S. aureus</i> Tager 104	○	×	CP012409.1
<i>S. aureus</i> 6850	○	×	CP006706.1
<i>S. aureus</i> LGA251	○	×	FR821779.1
<i>S. aureus</i> NRS153	○	×	CP026067.1
<i>S. aureus</i> 93b_S9	○	×	CP010952.1
<i>S. aureus</i> SA40TW	○	×	CP013182.1
<i>Platymonas subcordiformis</i>	○	○	Reference (1)
<i>Aspergillus fumigatus</i>	○	○	Reference (2)

References

1. Richter DFE, Kirst GO. 1987. d-Mannitol dehydrogenase and d-mannitol-1-phosphate dehydrogenase in *Platymonas subcordiformis*: some characteristics and their role in osmotic adaptation. *Planta* 170:528-534.
2. Krahulec S, Armao GC, Klimacek M, Nidetzky B. 2011. Enzymes of mannitol metabolism in the human pathogenic fungus *Aspergillus fumigatus* - kinetic properties of mannitol-1-phosphate 5-dehydrogenase and mannitol 2-dehydrogenase, and their physiological implications. *Febs Journal* 278:1264-1276.