

Supplementary Information

Discovery of a Novel L-Lyxonate Degradation Pathway in *Pseudomonas aeruginosa* PAO1

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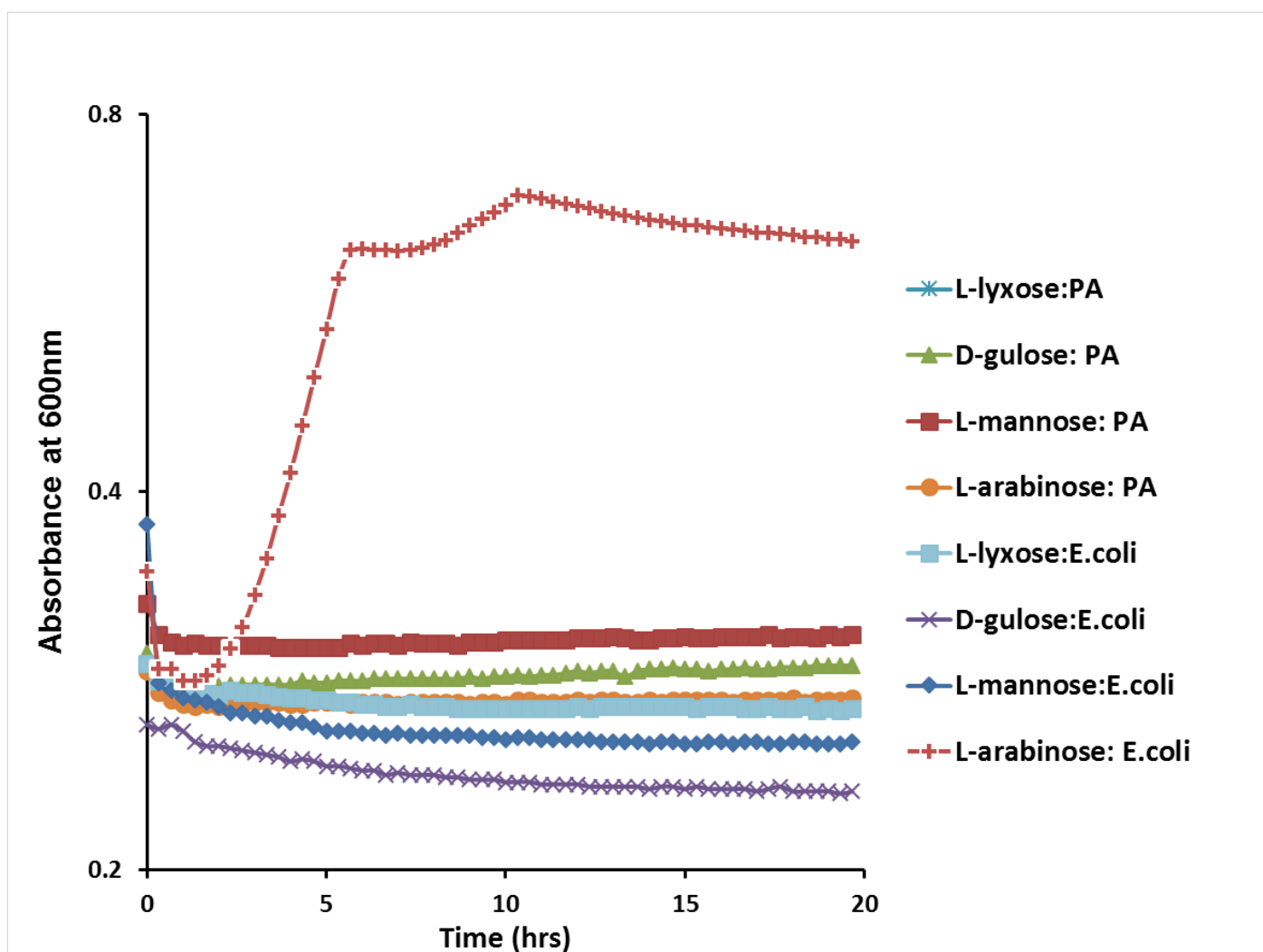
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Supplementary Table 1. Conserved Residues in the Subgroups of the Enolase Superfamily

SUBGROUP	$\beta 2$	$\beta 3$	$\beta 4$	$\beta 5$	$\beta 6$	$\beta 7$	$\beta 8$
Enolase	E	D	E	D	K	H	K
MAL	H	D	E	D	K	--	--
MLE	K	D	E	D	K	--	E/DxD/G
MR	K/R/H/Y/D/x	D	E	E	D	H	E
GlucD	K	D	E	N	D	H	D
ManD	R	D	E	E	R	H	E
GalrDII	RxY	D	E	H	--	--	--

Supplementary Table 2. Sequences of the primers used in qRT-PCR experiment

RT-PCR Primers	Sequences
RT-PCR-Q9I1Q0-FW	GCGTATTCAACATGATCTACGG
RT-PCR-Q9I1Q0-RV	TTCAGCGAACCGGTGAAG
RT-PCR-Q9I1Q1-FW	CCT TAC CGG CTC GGC TAC
RT-PCR-Q9I1Q1-RV	CGC CAG GTA CAG GTA GTT GC
RT-PCR-Q9I1Q2-FW	AGC TGG ACG ACC ACA AGC
RT-PCR-Q9I1Q2-RV	AAT CCT TGA GGT GCT CTT CG
RT-PCR-Q9I1Q5-FW	AAC AAG ACC TCG CTG CAC AT
RT-PCR-Q9I1Q5-RV	GGC GAA CCA GTG CAA CTC
RT-PCR-Q9I1Q6-FW	ACGACATCTATGGCGGTTTC
RT-PCR-Q9I1Q6-RV	GGAAAAGCCGTTTCCTGGT
RT-PCR-16sRNA-FW	TAA GCA CCG GCT AAC TTC GT
RT-PCR-16sRNA-RV	GAT TAA CGC TTG CAC CCT TC



Supplementary Figure 1. Growth phenotypes of *Pseudomonas aeruginosa* PA01 and *E. coli* on several aldoses.