

Table S12. Protein homology of lipid A proteins in six *L. interrogans* strains with reference to strain Fiocruz L1-130. The protein homologies of all six *L. interrogans* strains were almost the same except in gene *kdsB1*, protein LA1625.

Gene locus/ Protein name	GenBank Accession	Protein name	Langkawi	782	898	1489	1548	1530 ^d
<i>lpxA</i> / LA_3949	NP_714129.1	UDP-N-acetylglucosamine acyltransferase	100%	100%	100%	100%	100%	100%
<i>lpxC</i> / LA_2306	NP_712487.2	UDP-3-O-[3- hydroxymyristoyl] N- acetylglucosamine deacetylase	99%	99%	99%	100%	100%	100%
<i>lpxD1</i> / LA_0512	NP_710694.1	UDP-3-O-[3- hydroxymyristoyl] glucosamine N- acyltransferase	100%	100%	100%	100%	100%	100%
<i>lpxD2</i> / LA_4326	NP_714506.1	UDP-3-O-[3- hydroxymyristoyl]	99%	99%	99%	99%	99%	99%
<i>lpxB1</i> / LA_0786	NP_710967.1	arabinose kinase	100%	99%	99%	100%	99%	99%
<i>lpxB2</i> / LA_1096	NP_711277.2	lipid-A-disaccharide synthase	100%	99%	100%	100%	100%	100%
<i>lpxK</i> / LA_3095	NP_713875.1	tetraacyldisaccharide 4'- kinase	100%	99%	99%	99%	99%	100%
<i>kdtA</i> / LA_1477	NP_711657.1	3-deoxy-D-manno- octulosonic-acid transferase	100%	99%	100%	100%	99%	100%
<i>kdsB1</i> / LA_1625	NP_711806.1	3-deoxy-manno- octulosonate cytidyltransferase	99%	53%	99%	53%	53%	99%
<i>kdsB2</i> / LA_3573	NP_713753.2	3-deoxy-manno- octulosonate cytidyltransferase	100%	100%	100%	100%	100%	100%

<i>lnt</i> / LA_4078	NP_714258.2	apolipoprotein N-acyltransferase	100%	100%	100%	100%	100%	100%
<i>kdsA</i> / LA_2408	NP_712589.2	2-dehydro-3-deoxyphosphooctonate aldolase	100%	100%	100%	100%	100%	100%
<i>htrB</i> / LA_4039	NP_714219.2	lipid A biosynthesis lauroyl acyltransferase	100%	100%	100%	100%	99%	100%