

**S1 Table. Identity matrix of POP amino acid sequences aligned in S1 Figure.**

Sequence <sup>a</sup>	HsPOP	SsPOP	PhPOP	AaPOP	IsPOP	TgPOP	TcPOP	LiPOP
SmPOP	51	51	49	50	51	45	41	41
HsPOP	--	97	55	55	59	49	43	44
SsPOP		--	54	55	60	49	43	44
PhPOP			--	53	53	45	41	40
AaPOP				--	56	43	43	44
IsPOP					--	49	43	44
TgPOP						--	41	41
TcPOP							--	64

<sup>a</sup> POP sequences from *S. mansoni* (SmPOP), *H. sapiens* (HsPOP), *S. scrofa* (SsPOP), *P. humanus* (PhPOP), *A. aegypti* (AaPOP), *I. scapularis* (IsPOP), *T. gondi* (TgPOP), *T. cruzi* (TcPOP) and *L. infantum* (LiPOP).