

Sauerbrei A, Bohn-Wippert K, Kaspar M, Krumbholz A, Karrasch M, Zell R. 2015. Database on natural polymorphisms and resistance-related non-synonymous mutations in thymidine kinase and DNA polymerase genes of herpes simplex virus types 1 and 2. *J Antimicrob Chemother* 71:6-16, doi: 10.1093/jac/dkv285, PMID: 26433780

Supplementary Table 2: Natural polymorphisms in TK gene of HSV-2 as aa changes including nt changes, their location, antivirals tested, methods for phenotypic testing and references.

Amino acid change	Nucleotide change	Domain	Antivirals tested	Test methods for phenotype	PMID
A19V	C56T	non-conserved region	Aciclovir (ACV), Foscarnet (FOS)	plaque reduction assay	14670581
R26H	G77A	non-conserved region	ACV, FOS	plaque reduction assay	14670581
A27T	G79A	non-conserved region	ACV, FOS	plaque reduction assay	14670581
S29A	T85G	non-conserved region	ACV, FOS	plaque reduction assay	14670581
G39E	G116A	non-conserved region	ACV, FOS	modified dye uptake assay including formazan test, TK functional assay	24075863 26338148 23041200
N78D	A232G	non-conserved region	ACV, FOS	plaque reduction assay, cell growth assay	14670581 11238837
E96D	G288C/T	non-conserved region	ACV, FOS	plaque reduction assay	20733037
A119T	G355A	non-conserved region	ACV, FOS	plaque reduction assay	14670581
T131M	C392T	non-conserved region	ACV, FOS	modified dye uptake assay including formazan test	26338148

A135P	G403P	non-conserved region	ACV, FOS	plaque reduction assay	20733037
D137E	C411G/A	non-conserved region	ACV, FOS	plaque reduction assay	20733037
L140F	G420T	non-conserved region	ACV, FOS	plaque reduction assay, cell growth assay	14670581 11238837
G150D	G449A	non-conserved region	ACV, FOS	modified dye uptake assay including formazan test	26338148
A157T	G469A	non-conserved region	ACV, FOS	modified dye uptake assay including formazan test	26338148
T159I	C476T	non-conserved region	ACV, FOS	plaque reduction assay	14670581
A215T	G643A	non-conserved region	ACV, FOS	plaque reduction assay	14670581
R220K	G659A	conserved region	ACV, FOS	plaque reduction assay	14670581
N245S	A734G	non-conserved region	ACV, FOS	plaque reduction assay	14670581
R248W	C742T	non-conserved region	ACV, FOS	modified dye uptake assay including formazan test	26338148
Q251R	A752G	non-conserved region	ACV, FOS	modified dye uptake assay including formazan test	22024514

R284S	C850A	non-conserved region	ACV, FOS	plaque reduction assay	14670581
L342W	T1025G	non-conserved region	ACV, FOS	modified dye uptake assay including formazan test	26338148