

**APPENDIX C**

**The *in vitro* sensitivity data and expression polymorphism profile of *pfprt* and *pfmdr1* genes**

Isolates	Years	CQ	QN	MQ	ARS	<i>pfprt</i>						<i>pfmdr1</i>					Copy No.
		IC50(nM)	IC50(nM)	IC50(nM)	IC50(nM)	K76T	A220S	Q271E	N326S	I356T	R371I	N86Y	Y184F	S1034C	N1042D	D1246Y	
PR15	1988	50.6	284.64	13.67	3.8	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	Mu	W	1.417
PR17	1988	93.06	173.4	5.35	1.59	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	1.276
PR18	1988	88.37	229.77	3.21	2.53	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	1.233
PR19	1988	34.7	51.11	3.95	4.15	Mu	Mu	Mu	Mu	Mu	Mu	Mu	W	W	W	W	1.172
PR20	1988	59.51	148.71	30.35	4.68	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.727
PR21	1988	129.03	72.94	6.89	2.38	Mu	Mu	Mu	Mu	Mu	Mu	Mu	W	W	W	W	0.874
PR22	1988	84.56	229.82	9.06	2.63	Mu	Mu	Mu	Mu	Mu	Mu	Mu	W	W	W	W	1.106
PR23	1988	51.9	188.83	5.05	1.67	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	Mu	W	0.763
PR26	1988	133.81	231.23	5.26	5.26	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	0.639
PR27	1988	42.12	53.47	5.89	2.36	Mu	Mu	Mu	Mu	Mu	Mu	Mu	W	W	W	W	1.615
PR31	1988	113.8	99.62	16.64	3.05	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.578
PR81	1989	161.96	423.14	11.25	3.71	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	0.463
PR82	1989	119.36	312.88	5.64	1.66	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	0.867
PR84	1989	93.01	193.43	9.6	3.84	Mu	Mu	Mu	Mu	W	Mu	W	Mu	Mu	Mu	W	3.401
PR87	1989	125	120.46	7.86	2	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	Mu	W	2.216
PR88	1989	42.85	84.65	13.63	3.37	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.738
PR89	1989	91.13	190.43	37.97	5.11	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	1.185
PR90	1989	63.02	399.82	20.87	5.53	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	Mu	W	1.561
PR93	1989	103.89	183.65	2.54	0.99	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	0.327

**The *in vitro* sensitivity data and expression polymorphism profile of *pfprt* and *pfmdr1* genes (Cont.)**

TD2	1991	65.64	178.1	12.72	2.97	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.787
TD3	1991	96.27	103.1	12.62	4.78	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	1.183
TD7	1991	115.58	281.91	11	5.8	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	Mu	W	4.662
TD12	1991	174.224	409.75	8.83	1.38	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	0.601
TD13	1991	116.37	178.56	3.16	1.26	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	Mu	Mu	W	0.437
TD14	1991	119.77	66.45	5.31	1.25	Mu	Mu	Mu	Mu	Mu	Mu	W	W	W	W	W	1.139
TD16	1991	116.27	208.79	57.07	0.91	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.359
TD21	1991	84.89	35.65	36.23	2.79	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	2.044
TD29	1991	150.27	247.09	54.99	2.25	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.764
TD32	1991	60.58	271.57	19.02	2.83	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	1.472
TD33	1991	67.42	397.07	110.44	2.67	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.81
TD36	1991	111.2	195.2	75.7	1.963	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.854
TD37	1991	172.49	187.7	16.03	1.8081	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.937
TD378	1993	102.09	483.44	95.68	1.15	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	1.268
TD381	1993	110.02	56.2	6.79	1.27	Mu	Mu	Mu	Mu	Mu	Mu	W	W	Mu	Mu	W	0.719
TD388	1993	34.64	53.48	12.43	1.13	Mu	Mu	Mu	Mu	Mu	Mu	W	W	W	W	W	1.442
J1	2003	115.81	129.48	11.03	1.79	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	1.075
J2	2003	78.14	82.56	22.82	1.604	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.927
J4	2003	60	34.5	5.1	1.8	W	Mu	Mu	Mu	W	Mu	M	W	W	W	W	1.868
J7	2003	96.1	193.22	25.12	0.506	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	1.593
J8	2003	123.57	129.51	23	2.26	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.722
J10	2003	13.87	148.35	15.57	2.87	W	Mu	Mu	Mu	W	Mu	M	W	W	W	W	1.053
J12	2003	72.51	173.51	40.1	2.92	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.83

**The *in vitro* sensitivity data and expression polymorphism profile of *pfprt* and *pfmdr1* genes (Cont.)**

J15	2003	79.15	88.291	11.363	2.99	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.96
J17	2003	46.2706	36.64	10.2265	2.23	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	1.203
J23	2003	124.73	203.62	30.1	2.22	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.472
J28	2003	78.29	200.13	38.5	1.61	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.917
J29	2003	59.375	82.34	10.92	1.9	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	2.257
J37	2003	25.0541	112.2	1.74	3.115	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.395
J74	2003	78.28	161.82	24.76	1.236	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	2.197
J76	2003	26.4317	93.211	8.48	2.12	Mu	Mu	Mu	Mu	Mu	Mu	W	Mu	W	W	W	0.889

