

**Table 3. Drug Resistance Prediction Using Biological Cut-offs for the Most Common Patterns of NRTI Resistance Mutations: Comparison of the Antivirogram (AV) and PhenoSense (PS) Assays**

Pattern of NRTI-Resistance Mutations	Proportion of Isolates with Fold-Resistance Above the Biological Cut-off (No. Isolates Above the Cut-off / No. Isolates Tested)														
	<u>3TC</u>			<u>ABC</u>			<u>D4T</u>			<u>DDI</u>			<u>ZDV</u>		
	AV (UL: 2.88)	PS (UL: 1.53)	p	AV (UL: 2.75)	PS (UL: 1.35)	p	AV (UL: 3.31)	PS (UL: 1.32)	p	AV (UL: 3.80)	PS (UL: 1.32)	p	AV (UL: 3.03)	PS (UL: 1.87)	p
<b>M184V</b>	55/55	18/18	NS	<b>8/41</b>	<b>20/20</b>	<b>5E-10</b>	0/54	0/20	NS	<b>3/53</b>	<b>15/18</b>	<b>6E-10</b>	3/55	0/18	NS
<b>M41L,M184V,T215Y</b>	10/10	12/12	NS	1/7	<b>14/14</b>	<b>1E-04</b>	<b>0/10</b>	<b>9/12</b>	<b>5E-04</b>	<b>1/10</b>	<b>9/12</b>	<b>4E-03</b>	8/10	10/12	NS
<b>M41L,M184V,L210W T215Y</b>	8/8	7/7	NS	1/4	<b>8/8</b>	<b>2E-02</b>	<b>0/7</b>	<b>6/7</b>	<b>5E-03</b>	<b>0/7</b>	<b>6/7</b>	<b>5E-03</b>	6/8	7/7	NS

Footnote: The biological cut-offs of fold-resistance for each drug (UL: upper limit) were derived from the distribution of results obtained testing isolates lacking drug-resistance mutations and was defined as the geometric mean results plus 2 standard deviations calculated using the log-transformed levels of fold-resistance. The biological cut-offs are very similar to those previously published for the AV [Harrigan, 2001 #1631] and PS [Parkin, 2004 #2818] assays. The Fisher's exact test was used to compare the proportion of isolates with fold-resistance above the biological cut-off for the AV and PS assays. Statistically significant results (p<0.05) are shown in bold. Abbreviations: 3TC – lamivudine, ABC – abacavir, D4T – stavudine, DDI – didanosine, ZDV – zidovudine.