Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

Supplemental Digital Content 1 – Plasma and DBS viral load results

HIV-1 viral load results obtained from plasma on the COBAS® AmpliPrep/COBAS® TaqMan® HIV-1 Test v2.0 (Roche) and from dried blood spots on the COBAS® AmpliPrep/COBAS® TaqMan® HIV-1 Test v2.0 (Roche), RealTime HIV-1 (Abbott Molecular Inc.), NucliSENS EasyQ® HIV-1 v2.0 (bioMérieux).

< LOQ: below limit of quantification, TND: target not detected.

Samples with plasma VL < 1,000 cps/mL

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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

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| WHO-VL-308 | 11,700 | 4.07 | 7,800  | 3.89 | 5,888  | 3.77 | 8,091  | 3.91 |
| WHO-VL-076 | 35,800 | 4.55 | 25,150 | 4.40 | 15,488 | 4.19 | 6,975  | 3.84 |
| WHO-VL-085 | 65,800 | 4.82 | 26,250 | 4.42 | 20,417 | 4.31 | 122,760| 5.09 |
| WHO-VL-086 | 71,600 | 4.85 | 39,600 | 4.60 | 38,019 | 4.58 | 66,960 | 4.83 |
| WHO-VL-087 | 78,900 | 4.90 | 99,000 | 5.00 | 35,481 | 4.55 | 24,552 | 4.39 |
| WHO-VL-098 | 17,000 | 4.23 | 14,850 | 4.17 | 4,365  | 3.64 | 15,903 | 4.20 |
| WHO-VL-100 | 19,900 | 4.30 | 15,200 | 4.18 | 4,786  | 3.68 | 7,812  | 3.89 |
| WHO-VL-102 | 250,000| 5.40 | 220,000| 5.34 | 123,027| 5.09 | 122,760| 5.09 |
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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

Samples from HIV negative people (plasma VL not done)

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Sensitivity and specificity of dried blood spots for HIV-1 viral load quantification: a laboratory assessment of three commercial assays

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