

List of Correction Factors

Manufacturer

GeneProof a.s.,

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The correction factor (CF) is mathematically determined number for correction of quantification under different conditions (e.g. different extraction, biological material).

Extraction: GeneProof PathogenFree DNA Isolation Kit

		Correction factor (CF) in log						
PCR Kit	REF number	Whole Blood	Plasma	Urine	CSF	Serum	Aspirate	BAL
TaqPath™ Menu GeneProof™ Adenovirus PCR Kit	A58213	0	0	0	NA	NA	0	NA
TaqPath™ Menu GeneProof™ BK Virus (BKV) PCR Kit	A58430	0	0	0	0	NA	NA	NA
TaqPath™ Menu GeneProof™ BK/JC Virus (BK/JC) PCR Kit_JCV (FAM)	A58431	0	0	0	0	NA	NA	NA
TaqPath™ Menu GeneProof™ BK/JC Virus (BK/JC) PCR Kit_BKV (Cy5)		0	0	0	0	NA	NA	NA
TaqPath™ Menu GeneProof™ Cytomegalovirus (CMV) PCR Kit ^{IVDR}	A58428	0	0	0	0	0	NA	NA
TaqPath™ Menu GeneProof™ Epstein-Barr Virus (EBV) PCR Kit	A58429	0	0	NA	0	NA	NA	0
TaqPath™ Menu GeneProof™ Hepatitis B Virus (HBV) PCR Kit	A58426	NA	0	NA	NA	0	NA	NA
TaqPath™ Menu GeneProof™ Herpes Simplex Virus (HSV-1/2) PCR Kit_HSV-1 (FAM)*	A58128	-0.3	-0.3	-0.3	-0.3	-0.3	NA	NA
TaqPath™ Menu GeneProof™ Herpes Simplex Virus (HSV-1/2) PCR Kit_HSV-2 (Cy5)*		0	0	0	0	0	NA	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 6/7 (HHV-6/7) PCR Kit_HHV-6 (FAM) ^{IVDR}	A58433	0	0	NA	0	NA	NA	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 6/7 (HHV-6/7) PCR Kit_HHV-7 (Cy5) ^{IVDR}		0	0	NA	0	NA	NA	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 8 (HHV-8) PCR Kit ^{IVDR}	A58434	0	0	NA	0	NA	NA	NA
TaqPath™ Menu GeneProof™ JC Virus (JCV) PCR Kit	A58436	0	0	0	0	NA	NA	NA
TaqPath™ Menu GeneProof™ MH/UU/UP Multiplex PCR Kit (FAM) ^{IVDR}	A58123	NA	NA	0	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ MH/UU/UP Multiplex PCR Kit (Cy5) ^{IVDR}		NA	NA	0	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ MH/UU/UP Multiplex PCR Kit (Texas Red) ^{IVDR}		NA	NA	0	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ Parvovirus B19 PCR Kit	A58435	0	0	NA	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ Varicella-Zoster Virus (VZV) PCR Kit	A58432	0	0	NA	0	0	NA	NA

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Extraction: GeneProof PathogenFree RNA Isolation Kit

		Correction factor (CF) in log						
PCR Kit	REF number	Whole Blood	Plasma	Urine	CSF	Serum	Aspirate	BAL
TaqPath™ Menu GeneProof™ Enterovirus PCR Kit	A58211	NA	NA	NA	0	NA	NA	NA
TaqPath™ Menu GeneProof™ Hepatitis C Virus (HCV) Diagnostic PCR Kit	A58427	NA	0	NA	NA	0	NA	NA
TaqPath™ Menu GeneProof™ HIV type 1 (HIV-1) Diagnostic PCR kit	A58119	NA	0	NA	NA	0	NA	NA

Extraction: croBEE 201A Nucleic Acid Extraction Kit

		Correction factor (CF) in log						
PCR Kit	REF number	Whole Blood	Plasma	Urine	CSF	Serum	Aspirate	BAL
TaqPath™ Menu GeneProof™ Adenovirus PCR Kit	A58213	0.5	0.5	0.5	NA	NA	0.5	NA
TaqPath™ Menu GeneProof™ BK Virus (BKV) PCR Kit	A58430	0.6	0.6	0.5	0.6	NA	NA	NA
TaqPath™ Menu GeneProof™ BK/JC Virus (BK/JC) PCR Kit_JCV (FAM)	A58431	0.3	0.5	0.6	0.5	NA	NA	NA
TaqPath™ Menu GeneProof™ BK/JC Virus (BK/JC) PCR Kit_BKV (Cy5)		0.9	0.5	0.6	0.5	NA	NA	NA
TaqPath™ Menu GeneProof™ Cytomegalovirus (CMV) PCR Kit ^{IVDR}	A58428	0.5	0.4	0.7	0.5	0.5	NA	NA
TaqPath™ Menu GeneProof™ Enterovirus PCR Kit	A58211	NA	NA	NA	0	NA	NA	NA
TaqPath™ Menu GeneProof™ Epstein-Barr Virus (EBV) PCR Kit	A58429	0.6	0.5	NA	0.5	NA	NA	0.5
TaqPath™ Menu GeneProof™ Hepatitis B Virus (HBV) PCR Kit	A58426	NA	0.35	NA	NA	0.5	NA	NA
TaqPath™ Menu GeneProof™ Hepatitis C Virus (HCV) Diagnostic PCR Kit	A58427	NA	0.5	NA	NA	0.2	NA	NA
TaqPath™ Menu GeneProof™ Herpes Simplex Virus (HSV-1/2) PCR Kit_HSV-1 (FAM)*	A58128	0.4	0.2	0.2	0.2	0.2	NA	NA
TaqPath™ Menu GeneProof™ Herpes Simplex Virus (HSV-1/2) PCR Kit_HSV-2 (Cy5)*		0.7	0.5	0.5	0.5	0.5	NA	NA
TaqPath™ Menu GeneProof™ HIV type 1 (HIV-1) Diagnostic PCR kit	A58119	NA	0	NA	NA	0	NA	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 6/7 (HHV-6/7) PCR Kit_HHV-6 (FAM) ^{IVDR}	A58433	0.5	0.4	NA	0.4	NA	NA	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 6/7 (HHV-6/7) PCR Kit_HHV-7 (Cy5) ^{IVDR}		0.5	0.4	NA	0.4	NA	NA	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 8 (HHV-8) PCR Kit ^{IVDR}	A58434	0.3	0.4	NA	0.6	NA	NA	NA
TaqPath™ Menu GeneProof™ JC Virus (JCV) PCR Kit	A58436	0	0.25	1.0	0.25	NA	NA	NA
TaqPath™ Menu GeneProof™ MH/UU/UP Multiplex PCR Kit (FAM) ^{IVDR}	A58123	NA	NA	0	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ MH/UU/UP Multiplex PCR Kit (Cy5) ^{IVDR}		NA	NA	0	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ MH/UU/UP Multiplex PCR Kit (Texas Red) ^{IVDR}		NA	NA	0	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ Parvovirus B19 PCR Kit	A58435	0.3	0.3	NA	NA	NA	NA	NA
TaqPath™ Menu GeneProof™ Varicella-Zoster Virus (VZV) PCR Kit	A58432	0	0.4	NA	0	0.5	NA	NA

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Extraction: myCROBE/croBEE 2.0 Universal Extraction Kit

PCR Kit	REF number	Correction factor (CF) in log				
		Whole Blood	Plasma	Urine	CSF	Serum
TaqPath™ Menu GeneProof™ Cytomegalovirus (CMV) PCR Kit ^{IVDR}	A58428	0	0.7	0.3	0.5	0.5
TaqPath™ Menu GeneProof™ Herpes Simplex Virus (HSV-1/2) PCR Kit_HSV-1 (FAM)*	A58128	0.2	0.4	0.5	0.5	0.3
TaqPath™ Menu GeneProof™ Herpes Simplex Virus (HSV-1/2) PCR Kit_HSV-2 (Cy5)*		0.5	0.7	0.8	0.8	0.6
TaqPath™ Menu GeneProof™ Human Herpesvirus 6/7 (HHV-6/7) PCR Kit_HHV-6 (FAM) ^{IVDR}	A58433	0.6	0	NA	0.4	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 6/7 (HHV-6/7) PCR Kit_HHV-7 (Cy5) ^{IVDR}		0.6	0	NA	0.4	NA
TaqPath™ Menu GeneProof™ Human Herpesvirus 8 (HHV-8) PCR Kit ^{IVDR}	A58434	0.3	0.4	NA	1.0	NA
TaqPath™ Menu GeneProof™ Varicella-Zoster Virus (VZV) PCR Kit	A58432	0	0.5	NA	0.5	0.5

Extraction: MagCore® Viral Nucleic Acid Large Volume Extraction Kit (1.2 ml)

PCR Kit	REF number	Correction factor (CF) in log				
		Whole Blood	Plasma	Urine	CSF	Serum
TaqPath™ Menu GeneProof™ Hepatitis C Virus (HCV) Diagnostic PCR Kit	A58427	NA	0.0	NA	NA	0.3
TaqPath™ Menu GeneProof™ HIV type 1 (HIV-1) Diagnostic PCR kit	A58119	NA	0.0	NA	NA	0.0

NA Not applicable (not validated material or material for qualitative detection only)

* For TaqPath™ Menu | GeneProof™ Herpes Simplex Virus (HSV-1/2) PCR Kit correction factor for different quantification between channels (in IFU listed as CF1 and CF2) is also included

Use the following formula to calculate the viral load (choose formula according required form of result):

VLC – Viral load concentration [IU/ml or cp/ml, according to the PCR kit]

SC - Sample concentration [IU/ml or cp/ml, according to the PCR kit]

EV - Elution volume [μl]

IV - Isolation volume [μl]

CF - Correction factor

$$VLC = \left(\frac{SC \times EV \times 10^3}{IV} \right) \times (10^{CF})$$

$$\log(VLC) = \log \left(\frac{SC \times EV \times 10^3}{IV} \right) + CF$$

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BLC – Bacterial load concentration [IU/ml or cp/ml, according to the PCR kit]

SC - Sample concentration [IU/ml or cp/ml, according to the PCR kit]

EV - Elution volume [μl]

IV - Isolation volume [μl]

CF - Correction factor

$$BLC = \left(\frac{SC \times EV \times 10^3}{IV} \right) \times (10^{CF})$$

$$\log(BLC) = \log \left(\frac{SC \times EV \times 10^3}{IV} \right) + CF$$

Brno on 03-12-2025



Mgr. Petra ŠVÁSTOVÁ

Research and Development \ Device Characterization

Head of Device Characterization

(Name, position and signature of authorized person)

Manufacturer's stamp:



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