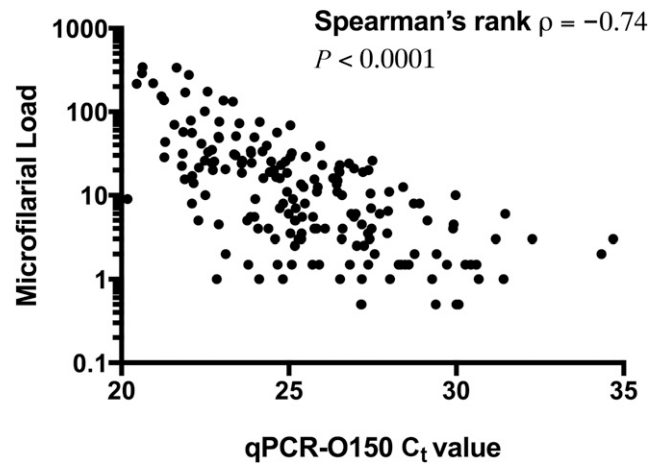SUPPLEMENTAL FIGURE 1. Receiver operator characteristics analysis of O150-PCR ELISA OD values using the qPCR-O150 results as the gold standard comparator. The optimal threshold OD = 0.055 point on the curve is shown with a large red point along with the sensitivity and specificity of this threshold.

SUPPLEMENTAL FIGURE 2. Microfilarial loads are inversely correlated with qPCR-0150 quantification as measured by the observed cycle threshold (C_t) value (Spearman's rank correlation = −0.74, $P < 0.0001$). The x axis depicts the average C_t value from experimental replicates of DNA from skin snips, whereas the y axis depicts the microfilarial count derived from microscopic evaluation of skin snips.

SUPPLEMENTAL TABLE 1
Summary of PCR assays for filarial DNA detection used in this study

PCR	Filarial species	Type of PCR	Target sequence	Primer sequences	Probe sequences
qPCR-O150[11]	*Onchocerca volvulus*	Real-time PCR (TaqMan)	O150 repeat	F: 5′-TCGCCGTGTAAA TGTGGAA-3′ R: 5′-AACTGATGACCTA TGACCCTAATC-3′	5′6-FAM-GGACCCAAT-ZEN-TCGAATGTATGTACCCGT-Iowa Black FQ quencher-3′
qPCR-MCA[12]	Pan-filarial	Real-time PCR (EvaGreen) with MCA	ITS1-5.8S	ITS1-UNIF: 5′-GGTGwTATTC GTTGGTGTCTAT-3′ 5.8S-EXTR: 5′-AGCTAGCTG CGTTCTTCAT-3′	N/A
O150-PCR ELISA[15]	*O. volvulus*	Conventional PCR with ELISA-based detection	O150 repeat	1,632: 5′-GATTYTTCCGRCG AANARCGC-3′ 1,633 biotin: 5′ biotin-GCNRT RTAAATNTGNAAATTC-3′	5′-AATCTCAAAAAACGGGT ACATA-6-FAM 3′
Mansonella perstans qPCR[31]	*M. perstans*	Real-time PCR (TaqMan)	ITS1	MP ITS1 Forward: 5′-AGGATC ATTAACGAGCTTCC-3′ MP ITS1 Reverse: 5′-CGAATAT CACCGTTAATTCAGT-3′	5′6-FAM-TTCACTTTTATTT AGCAACATGCA-BHQ1-3′
Loa loa qPCR[32]	*L. loa*	Real-time PCR (TaqMan)	ORF LLMF72	LLMF72 Forward: 5′-CGGAAGA CTCAACGTCAGAAATCA-3′ LLMF72 Reverse: 5′-AGGAACG CTTGATGGTGATGT-3′	5′6-FAM-CCAACAGCCTG CTTTT-BHQ1-3′

MCA = melt curve analysis.