S1 Table. Quality controls (QCs) composition used in the qPCR assay. Bovine RBC was 1:2 diluted with TE buffer pH 8.0 and different synthetic dsDNA (gBlocks, IDT) were used to spike the different QCs. RBC: red blood cells.

Quality Control	Purpose	Content
QC1	Negative control: No synthetic dsDNA added	• Bovine RBC • 1x TE Buffer pH 8.0
QC2	Positive control: Screening negative sample	• Bovine RBC • 1x TE Buffer pH 8.0 • *ACTB* • *SMN1* (Exon-7) • *HBB* (CD-6) • sj-TREC
QC3	Positive control: Screening positive sample	• Bovine RBC • 1x TE Buffer pH 8.0 • *ACTB* • *SMN2* (Exon-7, c.840C>T) • HbS allele (*HBB*: c.20A>T)