

The Thermo Scientific™ Phusion™ Blood Direct PCR Master Mix and Kit are designed for amplification of DNA from whole blood of various species at blood concentrations of up to 40% in the PCR reaction. Below you will find recommendations for the amount of blood needed for direct PCR. The recommendations can be used as guidelines when working with a new sample.

Sample	Blood amount	Sample amount in 20 $\mu$ L reaction	Sample amount in 50 $\mu$ L reaction
Human blood (preserved with EDTA, heparin or citrate)	1–40%	0.2–8 $\mu$ L	0.5–20 $\mu$ L
Human blood stored on Whatman 903™ and FTA™ cards	–	0.5–2 mm	0.5–2 mm
Cow, horse, sheep, cat blood	1–40%	0.2–8 $\mu$ L	0.5–20 $\mu$ L
Dog, rabbit, or goat blood	1–10%	0.2–2 $\mu$ L	0.5–5 $\mu$ L
Avian blood*	0.5–5%	Not recommended	0.25–2.5 $\mu$ L
Mouse blood*	0.25–10%	Not recommended	0.125–5 $\mu$ L
Fish blood*	0.05–20%	Not recommended	0.025–10 $\mu$ L

\*It is recommended to dilute blood between 2 and 10 fold with 1X phosphate-buffered saline (PBS).

Find out more at [thermofisher.com/directpcr](http://thermofisher.com/directpcr)

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