Instructions for use (v1.4)

#LYSO-25 LysoFAST DNA isolation reagent, 25mL
store at room temperature

Bacteria/Yeast

1. Centrifuge 1-2 mL of sample (e.g. 15,000 x g for 5 minutes) or slower (e.g. 3,000 x g for 10 minutes)
2. Remove all supernatant with a fine-tip transfer pipette
3. Add 80 µL ready-to-use LysoFAST reagent (if large pellet evident then add 160
4. Vortex samples well and leave on bench* for 3-5 minutes

Samples are ready to PCR. Use 2-3 µL per 20 µL PCR/qPCR

Tissue / Insects

1. Place sample (small or small pieces) in a PCR tube (0.2 mL) or 1.5 mL microcentrifuge tube
2. Add sufficient LysoFAST to cover the sample (30 – 100 µL)
3. Leave on bench* for 3-5 minutes. Centrifuge 30 seconds to clarify sample

Samples are ready to PCR. Use 2-3 µL per 20 µL PCR/qPCR

DNA cards (plant/blood)

1. Place card punch into PCR tube or 1.5 mL tube (depending on size of punch)
2. Add sufficient LysoFAST to cover the sample (30 – 50 µL). Ensure punch is submerged under solution (pulse centrifuge if required)
3. Leave on bench* for 3-5 minutes.

Samples are ready to PCR. Use 2-3 µL per 20 µL PCR/qPCR

Notes:
* some samples will benefit from a short heating step e.g. 95°C for 1-5 minutes.

If DNA is discoloured, then dilute 1:5 in 10mM Tris, pH 8 or TE buffer, pH 8.

If large pellets remain, centrifuge at 12-15,000 x g for 30 seconds and transfer supernatant to new tube.

If testing RNA, run cDNA synthesis reaction or one-step RT-qPCR reaction immediately after incubation time. LysoFAST is compatible with PerfeCTa qPCR ToughMix and qScript™ XLT One-Step RT qPCR Toughmix reagents.