

GeneReleaser® Whole Blood - Multiple Analysis Protocol

1. Collect whole blood by standard venipuncture or other techniques observing appropriate protection protocols. EDTA, Heparin and ACD preservatives are suitable.
2. Transfer an aliquot of whole blood with a population of 10^6 nucleated cells (approximately 200 ul) to a .5ml amplification tube. (NOTE: DO NOT USE ANOTHER SIZE TUBE!).
3. Add to the WB aliquot an equal volume of 0.14M NH_4Cl , 0.017 M TRIS, pH 7.4. Vortex this mix 5 seconds. Place on ice or at 4°C for 5 minutes.
4. Remove tubes from ice. If variable speed microfuge is used, centrifuge at 1,000xg for 1 minute. If fixed speed microfuge is used, pulse in 3 second intervals for 12 seconds or 4X.
5. Remove and discard the supernatant containing the RBC lysate being careful not to dislodge the cell pellet.
6. Wash the remaining pellet 3 times with 200 ul of 1x PCR buffer (whatever type you will be amplifying with) with 1.5 mM MgCl_2 . Vortex briefly and microfuge as per steps 4 and 5 above and discard the supernatant.
7. To the remaining pellet, add 20ul 1xTE and 20ul GeneReleaser®.
8. Vortex mix of step 6 for 5 seconds, then microwave in a suitable rack for 7 minutes on "High" (4500 Watt-Minutes).
9. Centrifuge 30 seconds, draw off 20ul of the supernatant which now contains the DNA/RNA released from cells, and transfer this to a fresh tube and bring up to a total volume of ~200ul with the addition of 180ul of 1xTE.
10. Use 5ul of this DNA solution for each 100ul reaction. Use for PCR or store at 4°C for later PCR. Amplification can be successfully performed on specimens processed by this protocol and stored at 4°C for over 60 days. Data suggests that specimens processed as per above can be amplified after at least one year when stored at -20°C .

If you have further questions, please contact us at support@bioventures.com. You may also contact us via fax (1-877-286-0330) or through our toll-free phone number (1-877-852-7846).