

GeneReleaser® Cellular Enrichment Protocol

In order to perform DNA amplification to detect certain viruses or other intracellular organisms it is necessary to obtain the population of nucleated cells from whole blood. The following procedure sets forth a rapid method for obtaining such a population of nucleated cells.

1. Transfer an aliquot of whole blood containing a population of 10^6 nucleated cells (~200 μ l) to a 0.5 μ l amplification tube.
2. To the aliquot of whole blood add an equal volume of 1% Triton X-100 (1% wt/volume prepared in sterile H₂O). Vortex 1-2 seconds and then place on ice or at 4°C for 5 minutes.
3. Remove the tubes from 4°C and microfuge for 1 minute at 12,000 xg.
4. Remove and discard the supernatant containing the RBC lysate.
5. Wash the remaining cell pellet 2 x with 200 μ l of 1x amplification buffer by resuspending the cells in the buffer and repeating the centrifugation step.
6. Following the last wash step, discard the supernatant as completely as possible.
7. Add 20 μ l of GeneReleaser® and proceed with either the thermocycle or microwave lysis protocols.

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).