

Product information

QF 24 TV4
CV1 2018

White Blood Cell Lysis Buffer

Catalog #: PL015
Size: 10ml
Storage: 4°C*

*: Product will be shipped at ambient temperature.
 Upon receipt, store White Blood Cell (WBC) Lysis Buffer at 4°C.

Product Description:

White blood cell samples are collected from whole blood and buffy coat after removing red blood cells and readily lysed in the lysis buffer PL015. The supernatant can be used for isolation of Genomic DNA. Subsequent extractions in lysis buffer PL015 also produce crude protein fractions suitable for further downstream applications. 10ml of Lysis-EZ L is sufficient for 10ml of blood sample. The solution is provided as a 1x Strength solution.

Contents:

Description	Size
Lysis-EZ L, White Blood Cell Lysis Buffer	10ml

Reagents not provided in this kit:

- Proteinase K
- Ammonium Acetate
- Ethanol (anhydrous and 70%)

Procedure:

1. Collect fresh anticoagulant blood in the presence of EDTA, heparin or citrate acid. Mix 0.5ml of Red Blood Cell Lysis Buffer (PL012) with 0.5ml anticoagulant blood. Vortex vigorously, and then keep at room temperature for 5 minutes. Please see details in PL012 data sheet.
2. Centrifuge at 10000rpm for 1 minute. Discard supernatant.
3. Add 1ml diluted 1x Strength Red Blood Cell Lysis Buffer(PL012) into pellet. Vortex and then centrifuge at 4000rpm for 5 minutes. Collect leukocyte precipitates and now red blood cells are removed.

Genomic DNA Extraction

Add 400µl White Blood Cell Lysis Buffer (PL015) and 0.4mg protease K. Mix and incubate at 55° C for about 2 hours. Add 100µl of 7.5M ammonium acetate. Mix and centrifuge at 10000rpm for 10 minutes. Transfer the supernatant to a new centrifuge tube. Add 2 volume pre-chilled anhydrous ethanol. Genomic DNA precipitates will appear. Centrifuge at 10000rpm for 10 min and wash precipitates with 70% pre-chilled ethanol. Dissolve genomic DNA in TE buffer.

Leukocyte Protein Extraction

Wash leukocyte precipitates with ddH₂O. Centrifuge at 10000rpm for 10 minutes and collect leukocyte precipitates. Add 400µl White Blood Cell Lysis Buffer, mix and keep mixture at 4° C for 10 minutes. Centrifuge at 10000rpm for 10 minutes and keep supernatant for SDS-PAGE or protein separation.

Notes:

1. If extracting Protein from White Blood Cell, please add proteinase and phosphatase inhibitor to protect sample from degrading.
2. If WBC Lysis Buffer precipitates at -20°C, warm to 37°C to completely dissolve the solution before use.



PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY.
 NOT INTENDED FOR HUMAN OR ANIMAL USE.