

Ver.23.06

## Red Cell Lysis Buffer (10X)

ORT122

### Introduction

Red Cell Lysis Buffer (10X) is a concentrated ammonium chloride-based buffer used for lysing red blood cells in single cell suspension with little to no effect on the nucleated cells. This buffer contains no fixative reagent so the cells remain viable after red blood cell lysis.

### Storage

Store undiluted at 2-8°C.

### General protocol for Bulk Lysis of human whole blood

- Add 10 mL of Red Cell Lysis Buffer (1X) per 1 mL of human blood.
- Incubate for 10-15 minutes at room temperature (no more than 15 minutes).
- Note: Observe turbidity to evaluate red blood cell lysis. Once the sample becomes clear, lysis is complete.
- Centrifuge at 500 ×g for 5 minutes at room temperature. Decant supernatant.
- Resuspend the pellet in the appropriate volume of buffer of choice.
- Perform a cell count and viability analysis.
- Proceed with cell staining or culture, as desired.

### Note

- Before use, the Red Cell Lysis Buffer (10X) must be diluted 1:10 with room temperature, reagent-grade water.
- The Red Cell Lysis Buffer (10X) has been shown to work equivalently in blood collected using either heparin or EDTA as the anti-coagulant.