

## Screen Quest™ 10X Calcium Assay Buffer with Phenol Red Plus™

**Ordering Information:**

Product Number: 36301 (10 plates)

**Storage Conditions:**

Keep at -20 °C and protect from light

**Instrument Platform:**

Fluorescence microplate readers

### Introduction

Calcium flux assays are preferred methods in drug discovery for screening G protein coupled receptors (GPCR). Our Screen Quest™ 10X Calcium Assay Buffer with Phenol Red Plus™ contains our water soluble and heat stable probenecid which inhibits the activities of drug-efflux pumps. It can be used to prevent fluorescent dyes (such as Indo-1 AM, Fura-2 AM, Fluo-3 AM, Fluo-4 AM, Fluo-8 AM, Rhod-2 AM and Rhod-4 AM) from leaking out of cells.

### Kit Component

Component	Amount
Screen Quest™ 10X Calcium Assay Buffer with Phenol Red Plus™	1 bottle (10 mL)

### Protocol (for one plate)

1. Thaw the bottle at room temperature before use.
2. Make 1X Screen Quest™ calcium assay buffer: Add 1 mL of 10X Screen Quest™ calcium assay buffer with Phenol Red Plus™ (Cat. # 36301) to 9 mL of HHBS (1X Hank's with 20 mM HEPES buffer, pH 7.0), and mix them well.  
*Note: 10 mL of 1X assay buffer is enough for one plate. Aliquot and store unused 10X assay buffer at ≤ -20 °C. Protect from light and avoid repeated freeze-thaw cycles.*
3. Make dye-loading solution for one cell plate: Add DMSO reconstituted fluorescent calcium dyes (such as Indo-1 AM, Fura-2 AM, Fluo-3 AM, Fluo-4 AM and Fluo-8 AM, Rhod-2 AM and Rhod-4 AM) into 10 mL of 1X Screen Quest™ calcium assay buffer (from Step 2), and mix them well. The working solution is stable for at least 2 hours at room temperature.

**Warning: This kit is only sold to end users. Neither resale nor transfer to a third party is allowed without written permission from AAT Bioquest. Chemical analysis of the kit components is strictly prohibited. Please call us at 408-733-1055 or e-mail us at [info@aatbio.com](mailto:info@aatbio.com) if you have any questions.**