

TECHNICAL BRIEF

AlphaScreen® SureFire® master mixes

2-step protocols, non-adherent (suspension) cell protocols

- The suggested volumes assume that you are manually pipetting or using a repeat pipette (no troughs, no automation) in 384-well format. These are recommended master mix recipes when working with non-adherent/suspension cells.
- Please check to make sure that you are using a 2-step kit where the original protocol recommends mixing the Reaction buffer, Activation buffer, and Acceptor beads in a 40:10:1 ratio, respectively. This is indicated in the manual, in the "Buffer preparations and Storage Conditions" table. Different kits use different master mix recipes.

Reaction buffer + Activation buffer and AlphaScreen® Acceptor beads	Mix Reaction buffer (40 parts), Activation Buffer (10 parts) and Acceptor beads (1 part). Mix to be stored at room temperature and used the same day, excess mix should be discarded.
---	---

# of Reactions	Volume Reaction buffer (µL)	Volume Activation buffer (µL)	Volume Acceptor beads (µL)	Prepared mixture volume (µL)	Minimum volume mixture required (µL)
50 Reactions	400	100	10	510	425
100 Reactions	720	180	18	918	850
150 Reactions	1040	260	26	1326	1275
200 Reactions	1400	350	35	1785	1700
250 Reactions	1720	430	43	2193	2125
292** Reactions	2000	500	50**	2550	2482
300** Reactions	2040	510	51**	2601	2550
384** Reactions	2600**	650	65**	3315	3264

**Indicates you are either near or have exceeded the amount of material of one of the components in either the 500-point SureFire kit, or the 500-point AlphaScreen Protein A kit. The 500-pt AlphaScreen Protein A kit (#6760617C) contains 50 µL of Donor beads, and 50 µL of Acceptor beads.