

TECHNICAL BRIEF

AlphaScreen® SureFire® master mixes

1-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 1-step kit where the original protocol recommends mixing the Reaction buffer, Activation buffer, Donor beads, and Acceptor beads in a 60:10:1:1 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® beads	Mix Reaction buffer (60 parts), Activation Buffer (10 parts) and Donor and Acceptor beads (1 part each). Mix to be stored at room temperature and used the same day, excess mix should be discarded.
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# of Reactions	Volume Reaction buffer (µL)	Volume Activation buffer (µL)	Volume Donor beads (µL)	Volume Acceptor beads (µL)	Prepared master mix volume (µL)	Minimum volume mixture required (µL)
50 Reactions	540	90	9	9	648	600
100 Reactions	1080	180	18	18	1296	1200
150 Reactions	1560	260	26	26	1872	1800
200 Reactions	2100	350	35	35	2520	2400
250 Reactions	2580	430	43	43	3096	3000
295** Reactions	3000	500	50**	50**	3600	3540
300** Reactions	3060	510	51**	51**	3672	3600
330** Reactions	3360**	560	56**	56**	4032	3960

**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 bead, and 50 µL of acceptor bead.