

KPL TECHNICAL SERVICE REPORT

Stability of ABTS Peroxidase Stop Solution (Cat. No. 50-85-01)

PURPOSE

To measure the stability and performance of 5X ABTS Peroxidase Stop Solution. The Stop Solution is comprised of 5% SDS.

MATERIALS AND METHODS

The following lots of material were tested via ELISA. Representative bottles from each lot were stored at the recommended temperature of 4°C. Each lot was diluted to 1X in Reagent Quality Water prior to use. The lot numbers are listed below:

Reagent	Lot No.	Date of Manufacture
5X ABTS Peroxidase Stop Solution	VL117	12/21/1998
5X ABTS Peroxidase Stop Solution	XL008	10/31/2000

The samples were evaluated via an ELISA assay that utilizes ABTS Substrate and a diluted (1X) solution of the Stop Solution. The stopped plate was read at five different times: immediately after stopping the plate and then 15, 30, 45, and 60 minutes afterward. The differences between the test and reference samples when compared to time zero may be no more than +/- 0.06 OD units

RESULTS AND CONCLUSIONS

Both lots of Stop Solution fully stopped that plate, and made sure that the data did not drift outside of the required parameters. This indicates that the Stop Solution is stable for a minimum of two years after the date of manufacture.

Figure 1. Average O.D. readings of test and reference samples at different time points

	Control	Test #1	Test #2	Test #3
Time Zero	0.314	0.312	0.311	0.313
15 Minutes	0.314	0.312	0.310	0.313
30 Minutes	0.311	0.310	0.311	0.312

45 Minutes	0.312	0.310	0.309	0.311
60 Minutes	0.311	0.310	0.309	0.311

Figure 2. Change between control and test readings at different time points

	Test #1	Test #2	Test #3
Time Zero	0.002	0.003	0.001
15 Minutes	0.002	0.004	0.002
30 Minutes	0.001	0	-0.001
45 Minutes	0.002	0.003	0.001
60 Minutes	0.001	0.002	0



KPL, Inc. Gaithersburg, MD 20878 USA
800.638.3167 301.948.7755
FAX 301.948.0169 www.kpl.com