## HIGH THROUGHPUT SCREENING DEGRADATION STUDY: DETERMINATION OF STORAGE OPTIONS AND RETENTION LIMITS L.E. Williams, B.A. Kozikowski, T. Burt, B. Kuzmak, K. L. Morand **Procter & Gamble Pharmaceuticals**

## Abstract

Currently, all High Throughput Screening compound plates are stored wet in anhydrous DMSO at room temperature. A yearlong study was designed to investigate the effects of these storage conditions on our compound collection. Flow Injection Analysis (FIA) using positive and negative electrospray ionization (ESI) mass spectrometry was utilized to monitor the chemical stability of a series of 116 plates containing a total of 9,280 selected compounds. Each compound was assessed at three time points throughout the duration of the study. In this poster we will be presenting a general overview and results for the long term storage options and retention limits for compound screening collections.

## **Current Storage Conditions**

All compounds are stored in 99.8% anhydrous DMSO solutions at ambient temperature. They are kept within the Kardex plate storage system.



