Introduction

U.S. (7 U.S.C. 136, 110 Stat 1613) and international regulations require the testing of chemicals for the detection of potential endocrine activity.

As many as 13,000 chemicals may be tested during screening data, with several hundred new chemicals being added each year (EPA 2011).

The U.S. Environmental Protection Agency (EPA) has developed a tiered strategy for identification of endocrine active chemicals (EACs).

Tier 1 testing (Figure 1) consists of in vitro and in vivo screens. Such testing could cost millions of dollars per chemical (Martin 2012).

Figure 1. EPA Tier 1 Battery*