



# DIVERSITY LIBRARIES

## Overview

ChemBridge® draws from its extensive stock of more than 1.2 million leadlike and druglike screening compounds to create diversity libraries that provide our clients access to small molecule libraries offering diverse chemotypes and pharmacophores at attractive prices. These diversity libraries provide ideal starting points for clients looking for a wide range of chemical structure diversity to screen against targets from many classes or where little biological information is available to support targeted or focused screening. These libraries are pre-plated selections offered in 96-well and 384-well format at amounts as low as 0.25µmol as 25µl of 10mM DMSO solutions or as dry film.

## DIVERSet Libraries

ChemBridge offers two, complementary DIVERSet® Libraries. Both DIVERSet Libraries (the DIVERSet-CL and the DIVERSet-EXP) are designed to provide the greatest coverage of pharmacophore space within a fixed library size while maintaining structural diversity. The two DIVERSet Libraries have also been designed to be complementary so that they can be combined to create a small molecule diversity library of 100,000 or more compounds. Partial sets beginning at 5,040 compounds are also available from either library. The DIVERSet Library approach has been applied successfully to multiple, different releases of the DIVERSet Libraries since the initial launch and has led to hundreds of citations in peer-reviewed scientific publications.

The 60,000 compound **DIVERSet-CL Library** is selected from ChemBridge's CORE Library stock of more than 700,000 leadlike and druglike compounds based on novel scaffolds designed by ChemBridge. Up to 100,000 new compounds are added per year to the CORE Library stock and new 10,000 compound blocks are periodically added to the DIVERSet-CL Library as existing blocks are exhausted.

The 50,000 compound **DIVERSet-EXP Library** is selected from ChemBridge's EXPRESS-Pick stock of more than 500,000 handcrafted, druglike compounds. Revised 10,000 compound blocks are periodically added to the DIVERSet-EXP Library as existing blocks are exhausted.

## CombiSet Library

The 20,000-compound CombiSet Library offers a leadlike and druglike compound selection from our 700,000 compound CORE Library stock at a lower cost point than a custom, cherry-picked selection. Multiple synthetic schemes are represented, with a sampling of final compounds from different synthetic schemes. Partial sets of 5,040 and 10,000 compounds are also available. The CombiSet offers a cost-effective set providing a subset of diversity from the CORE Library stock with some built in SAR.

## MicroFormat Library

The 60,000-compound MicroFormat Library provides compounds in pre-plated format selected from the 500,000 compound EXPRESS-Pick stock, offering access to a large number of compounds at an attractive price point. The MicroFormat Library offers a cost-effective set providing representation of diversity from the EXPRESS-Pick stock. Partial sets beginning at 5,040 compounds are available.