DESCRIPTION

Project Description:

The first stage of this project (Summer 2015) focused on developing a 2-D HPLC method to isolate individual compounds in a combination therapeutic product by ion–exchange chromatography (CEX) followed by size exclusion chromatography (SEC) analysis. Feasibility of this process was confirmed in that stage. The second stage of the project (June 2016) will focus on isolation of individual compounds in a combination product and characterization by SEC, capillary electrophoresis sodium dodecyl sulfate (CE–SDS) under non–reducing and reducing conditions and capillary isoelectric focusing (cIEF). A force degraded combination product will also be used to determine if the 2-D analysis is capable of quantitating changes to the proportions of different species in the individual components.

Business Justification for the Project:

Currently, there are limited methods that can evaluate the degradation products of compounds individually in a combination therapeutic product and most methods evaluate the compounds as an aggregate. It important to understand the individual product attributes and if successful this will be accomplished by this work.

Key Deliverables at Project Completion:

a. Documentation of work in electronic/laboratory notebook;

b. Final presentation

Key Learnings:

a. Understanding and operation of HPLC system and techniques;

b. Data analysis;

c. Learn state–of–the–art software tools and applications;

d. Good documentation practices, technical report writing.

Additional details:

The Mentor will work closely with the Summer Intern to both guide and teach them about chromatography and Method Development activities in Biopharma. The Mentor will also educate the Intern on how the work we do at BMS directly affects the patients taking our products.

Required Skills:
a. Proficient with basic laboratory skills such as solution preparation and pipetting;

b. Knowledge of protein chemistry and chromatography is highly desirable;

c. Problem solving skills; d. Good documentation and organizational skills.

d. Senior, Masters, PhD – Biochemistry, Biophysics, Biotechnology, Analytical Chemistry, Biomed Eng, Chem Eng or related

Location: Bloomsbury, NJ

Program Duration: June–August 2016

Job Category; Global Manufacturing and Supply

DIVISION
Talent Acquisition

LOCATION
nationwide
no
City
Bloomsbury
State/Province
New Jersey
Country
United States

DESIRED MAJOR(S)
Chemical Engineering, Chemistry, Biochemistry & Molecular Biology

To Apply: https://bms.recsolu.com/external/requisitions/ig1IPX5BS_lv9LNlDFQuw