1. Pancreatic juice contains sodium bicarbonate as well as a plethora of digestive enzymes. The percent composition of the juice secreted by the pancreas is in response to the specific nutrients found in the chyme of the duodenum. The graph below shows the composition of this juice in response to four different substances.
2. Of the four independent variables, three of them are vital nutrients. For each of those 3 nutrients identify, specifically, identify what enzyme the pancreas would secrete along with the sodium bicarbonate. (3 pts)
3. Using the sequence of chemical digestion, explain why the pancreas would respond the way it does in terms of quantity of digestive enzyme when lipids are present in the chyme as opposed to the other two nutrients. (2 pts)
4. Even when the stomach has no bolus to digest, some gastric juice can pass through the pyloric sphincter and enter the duodenum. Using graph 1, discuss how the pancreas would respond and why. ( 2 pts)