

In UV-vis spectroscopy each molecule has its own fairly unique “shape” that can be compared to other known and unknown substances. UV-vis does not tell us much about the functional groups of the molecule being analyzed, other than the presence of double bonds that absorb energy in the UV-vis range. Sections 13.17 to 13.21 in Bruice cover UV-vis spectroscopy.

In this lab we are using UV to determine if we have created a new compound (Diels-Alder product) or simply re-isolated our starting materials. In order to do this we will compare the spectra of anthracene and your dienophile with your product. There will likely be both similarities and differences between these three spectra. The key is to find something in your product spectrum that is not in either anthracene or your dienophile.



