

## **Amberlite XAD-16 resin preparation/protocol**

This protocol is used to remove polar metabolites from crude culture broth. The manufacturer's instructions can be found at:

<http://www.dria.or.kr/bbs/xFileUploadData/13/%ED%95%A9%EC%84%B1%ED%9D%A1%EC%B0%A9%EC%A0%9C.pdf>

1. To remove supplied sodium carbonate salts resin must be activated by soaking in excess (1% w/v) water for 30 minutes and decanting, soaking in excess (1% w/v) MeOH for 30 minutes and decanting, repeating excess MeOH wash, and soaking in a final volume of water (50% w/v) to allow resin to swell for use in experiments
2. Prepared resin should be used at 10% w/v for exactions
3. Resin is added to clarified culture broth (pH of culture broth should be adjusted for appropriate metabolites) and shaken at 200 rpm overnight
4. Remove resin by filtration and add excess MeOH and shake at 200 rpm for 2-5 hours
5. Remove resin by filtration and concentrate MeOH in vacuo to a volume suitable for analysis