

Avilamycin Analysis

Normal Phase extraction on Strata NH2 followed by reversed phase HPLC on Gemini C18.

First, extract from the meet tissue by homogenizing with hexane (with sodium sulfate to remove any water from the sample). Then, after filtering away any solid material, load sample onto Strata NH2 sorbent that has been preconditions with isopropanol and equilibrated with hexane. wash with hexane and elute with acetone. dry eluent under a gentle nitrogen stream and the reconstitute in mobile phase. A couple notes on the extraction procedure:

1. might get better recovery by first extracting the initial meet tissues by homogenizing with acetone and then doing a quick liquid liquid partion into hexane
2. adding 5%acetone to the wash should help yield cleaner extracts
3. eluting with 100% acetone is probably also unnecessary, and may also see cleaner extracts as well as easier flow through if maybe 20-50% hexane is included in the elution solvent ... adjust according to recovery (low recoveries = use less hexane in the wash).

Mobile phase: 50:50 10mM ammonium formate pH 2.8 : Acetonitrile

HPLC column: Gemini C18

Detection Wavelength: 295 nm.

Chromatogram separace avilamycinu

Separace složek avilamycinu - standard c = 20 mg/l

