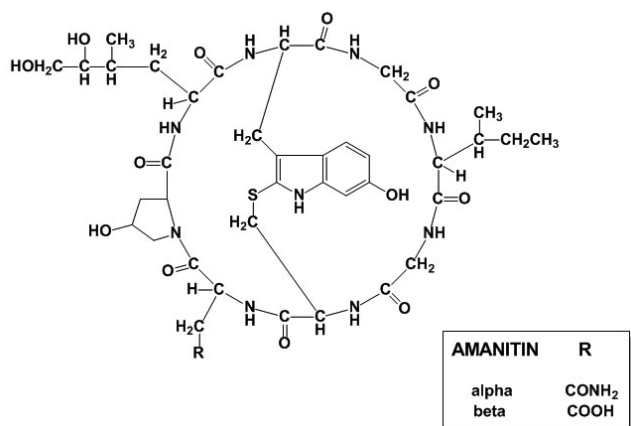
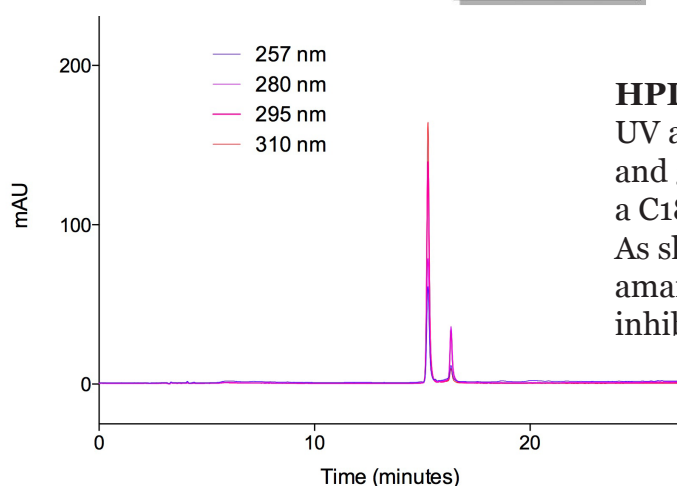


α -Amanitin from *Amanita phalloides*

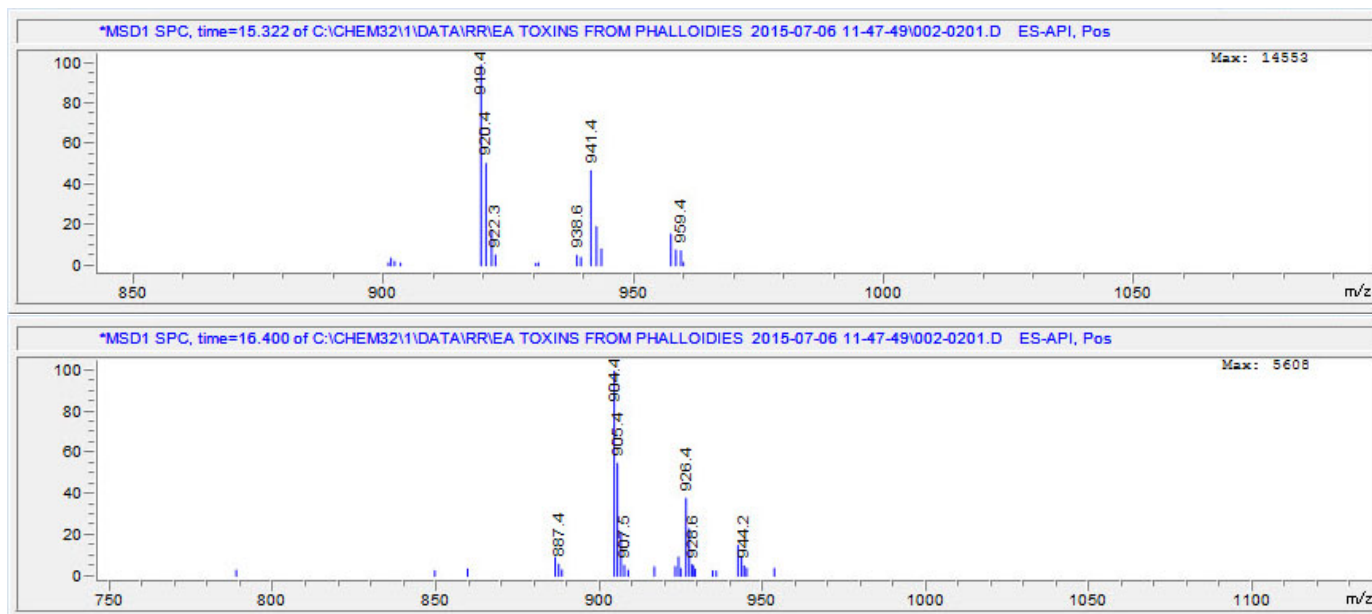


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Structure of α -Amanitin, a bicyclic octapeptide with unique tryptathionine crossbridge. Potent inhibitor of eukaryotic RNA polymerases II and III. Purity ~ 95%
Molecular weight = 918.4



HPLC separation of α -Amanitin. Shown is the UV absorbance at multiple wavelengths (230, 254, 280, and 310 nm) of a separation of purified α -amanitin on a C18 column. By peak areas, α -amanitin is ~95% pure. As shown below, the contaminant peak is composed of amanin, another amanitin with RNA polymerase inhibitory activity.



Mass spectroscopy of α -Amanitin. Shown are mass spectroscopic peaks and associated masses for the α -amanitin peak eluting at 15.3 min, consistent with the mass of β -amanitin ($M+H^+ = 919.4$) and adducts ($M+Na^+ = 941.4$, $M+K^+ = 957.4$). The lower panel shows the MS of the minor contaminant peak, consistent with amanin ($M+H^+ = 904.4$, $M+Na^+ = 926.4$, $M+K^+ = 942.2$).