

annin (creating the agar – tannins media), and once with unextracted acorn
e burr oak agar media).

s (*Tenebrio molitor*) and *Curculio* sp. weevils were chosen as our test anim
from a colony maintained at Rockhurst University, and weevil larvae were
macrocarpa acorns. Three mealworms or weevils were placed on each petri
feed for one week. Afterwards frass was collected from the dishes and anal
graphy electrospray ionization mass spectroscopy (LC/ESI/MS).

MENTATION–HPLC/DAD/ESI-MS/MS Analyses

/MS experiments were performed on an Agilent MSD XCT ion trap mass sp
quipped with an electrospray ionization (ESI) interface, 1100 HPLC, a DAD
n software. The column used was a 150 x 0.5 mm i.d., Zorbax XDB- C18 3
CA). Flow rate was 5.00 μ L/min, injection volume was 0.5 μ L, and column te
ESI parameters were as follows: nebulizer, 15 psi; dry gas (N₂), 5.00 L/mi
e, 325 °C; trap drive, 78.0; skim 1, -40 V; lens 1, 5.00 V; octopole RF ampli
it, -200 V. The ion trap mass spectrometer was operated in negative ion mo
0 to m/z 2,200 at a scan resolution of 13000 amu/s. Trap ICC was 70,000 u
on time was 200,000 μ s. MS-MS was operated at a fragmentation amplitud
BS was 20,000 units.