



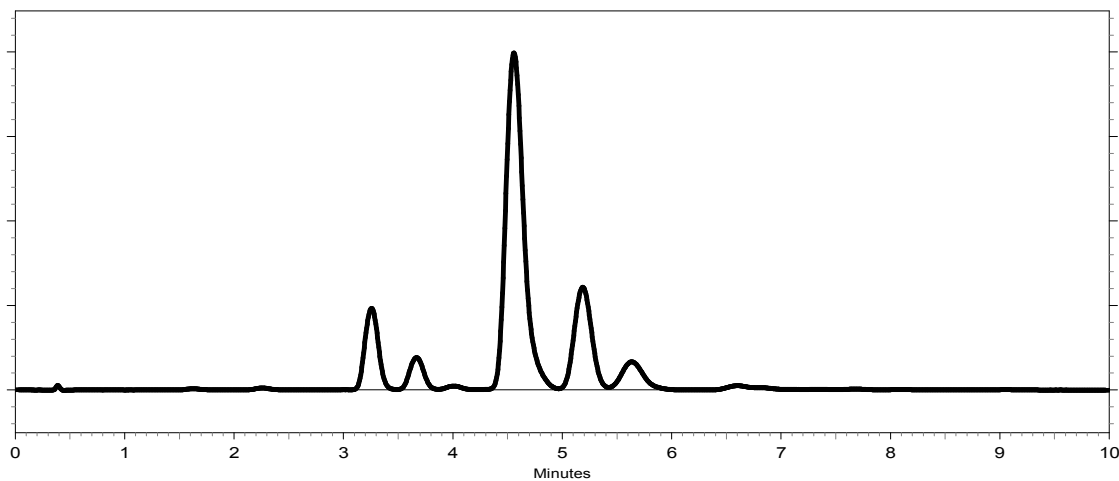
International Subcommittee for
Isomerized Hop α -Acids Standards



DCHA-Rho

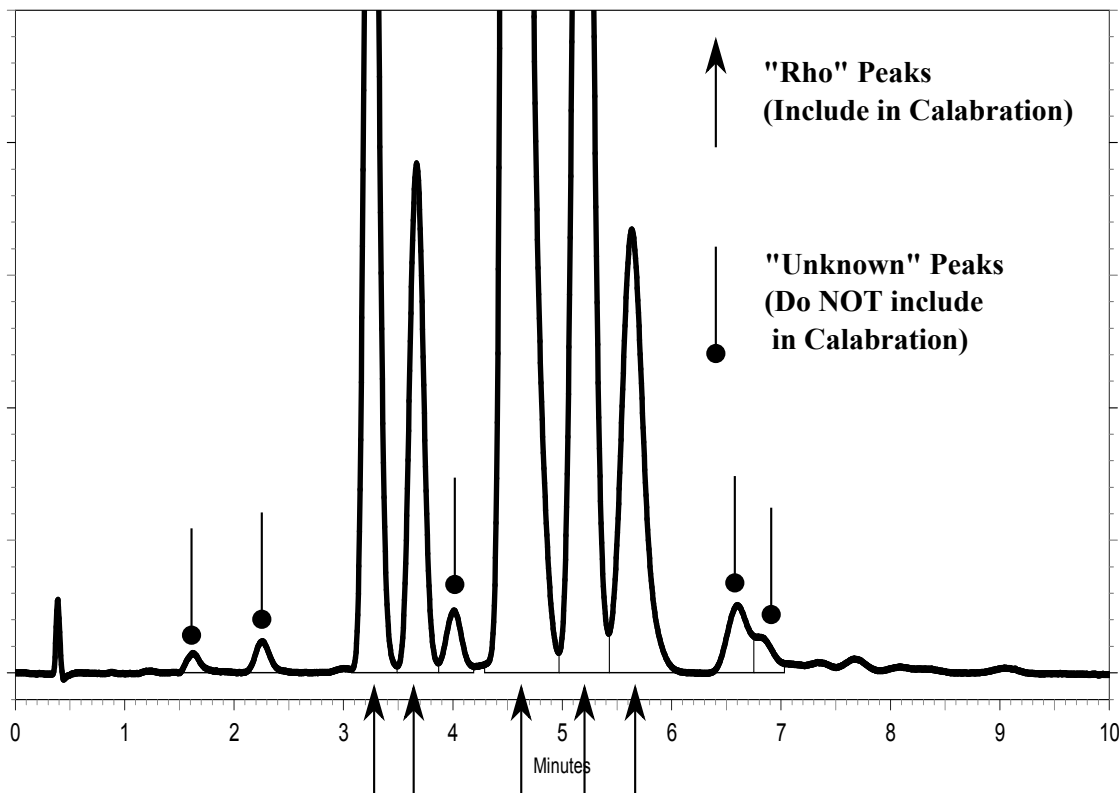
ICS-R3

Analysis by EBC 7.9



Restek Raptor ARC-18 2.7 μ m, 50 x 4.6mm; 40°C; 1.3 mL/min.

ICS-R3 (Expanded)

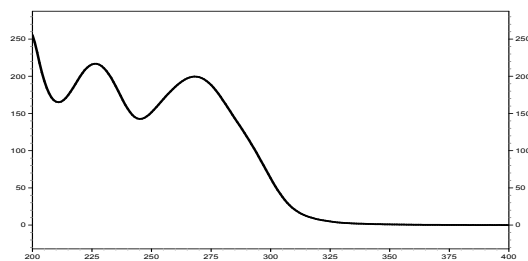


PDA Spectra

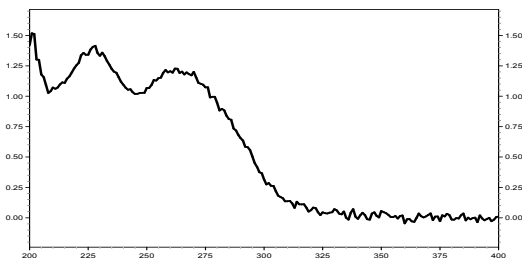
Unknown Peak at 1.62 min.



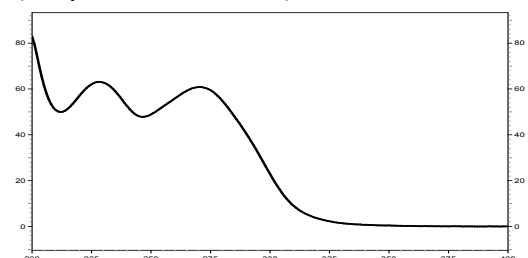
3rd Rho Peak at 4.56 min.
(cis- ρ -isohumulone 1)



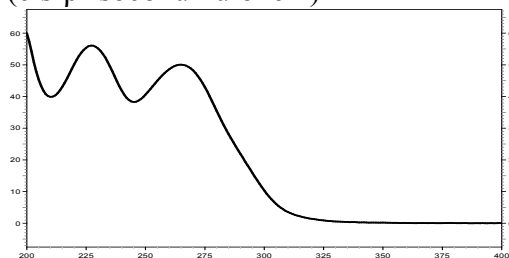
Unknown Peak at 2.26 min.



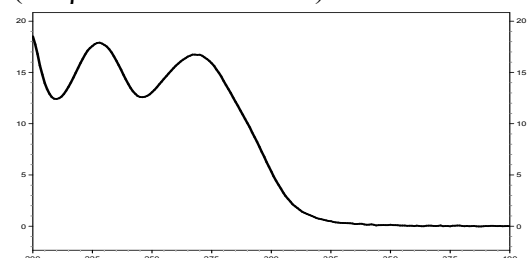
4th Rho Peak at 5.19 min.
(cis- ρ -isohumulone 2)



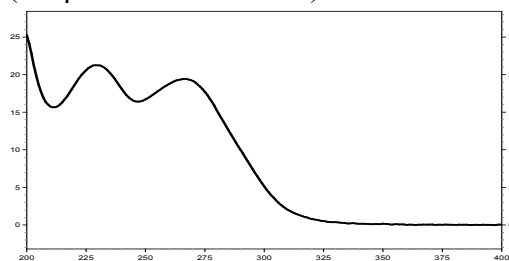
1st Rho Peak at 3.26 min.
(cis- ρ -isocohumulone 1)



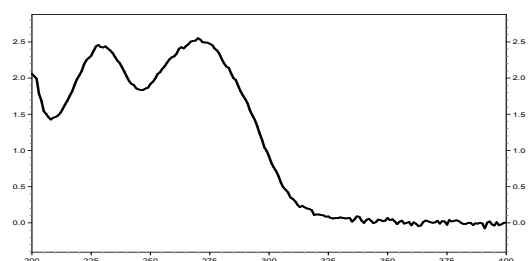
5th Rho Peak at 5.64 min.
(cis- ρ -isoadhumulone 1)



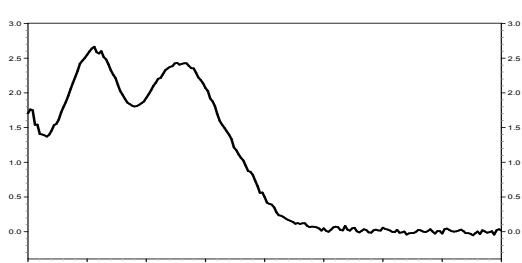
2nd Rho Peak at 3.67 min.
(cis- ρ -isocohumulone 2)



Unknown Peak at 6.60 min.



Unknown Peak at 4.01 min.



Unknown Peak at 6.84 min.

