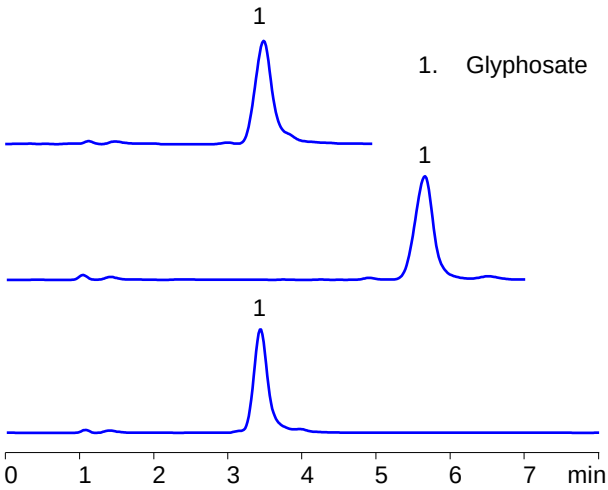
HPLC Analysis of Glyphosate on Amaze HA Mixed-Mode Column. Effect of Mobile Phase Composition.

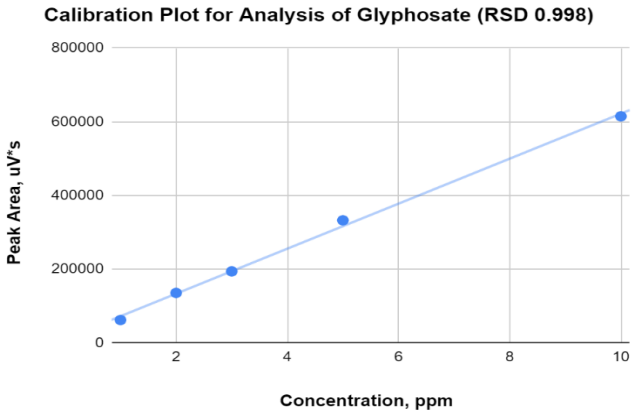


60% ACN with 20 mM AmFm pH 3

20% ACN with 10 mM AmFm pH 3

20% ACN with 20 mM AmFm pH 3

Column:	Amaze HA
Dimensions:	2.1x100 mm, 3 um, 100A
Mobile phase:	ACN/Water/Ammonium formate
Flow rate:	0.25 ml/min
Detection:	CAD



Calibration Table for Analysis of Glyphosate

Concentration, ppm	Peak Area, uV*s
1	62187
2	135604
3	194100
5	332583
10	614720

Application Notes

Glyphosate is one of the most widely used broad-spectrum herbicides and crop desiccant. It is highly polar and acidic in nature. We have developed a new robust and short method for analysis of glyphosate on the Amaze HA column with a Charged Aerosol Detector. Glyphosate is mostly retained by ion-exchange mechanisms. Amaze HA column is RP/HILIC/anion-exchange/cation-exclusion column. The method can be used for the analysis of complex samples of glyphosate in various matrices. Interference from components of the sample matrix can be addressed by three parameters - amount of ACN, amount of buffer and buffer pH. Method is fully MS compatible. See more at www.helixchrom.com