

Food Safety Laboratory Capacity Building

Evaluation 2

1.	Please describe the concept of "fit-for-purpose" for an analytical method in a regulatory food safety laboratory.
2.	What differentiates direct and reverse phase liquid chromatography?
3.	Please describe the difference between an isocratic and a gradient run in LC?
4.	In GC equipped with a vaporization injector, what is the part that needs cleaning most often, and describe its purpose.
5.	Please list at least one characteristic of a sample that makes it amenable to be analyzed using the following detectors:
a. Flu	iorescence
b. UV	//VIS or PDA (you can choose)
c. Ma	ass spectrometer
d. EC	D
6.	How can you reduce the back pressure in a liquid chromatograph (please provide at least 2 options)
7.	Please describe at least one impact of increasing the column length in chromatography (gas or liquid)
8.	Please describe at least one advantage and one disadvantage of using a column with smaller particles in LC.
9.	Please list 3 types of additives that can be used in LC and their purpose.
10	Please explain why standards must be analyzed as part of our routine analytical batches