

What is SPE?

Solid Phase Extraction (SPE) is a method of sample preparation that separates and concentrates analytes from a solution, prior to analysis.

SEPARATION SIMPLIFIED

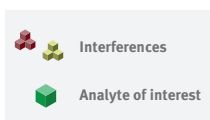
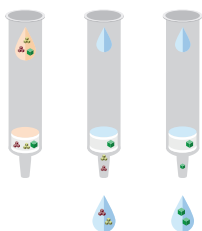
SPE is a technique that separates analytes, using physical or chemical adsorption interactions with a solid media.

The media is mounted on a sorbent material which is in the form of either a disk or column.

The analytes are retained on the media as the sample passes through the sorbent material.

The analytes are eluted from the media using a solvent in which the analytes are soluble and this solution is retained for analysis.

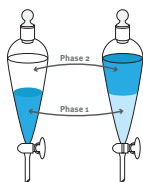
Load Wash Elute



A POPULAR ALTERNATIVE

A popular alternative to solid-phase extraction is liquid-liquid extraction (LLE), which uses immiscible solvents to extract, or partition, analytes based on their relative solubilities.

The partitioned analytes are then separated when the solvents are physically separated from each other.



MAIN ADVANTAGES

Solid-phase extraction has advantages over liquid-liquid extraction in that it uses much less solvent, it generates less hazardous waste, it takes much less time and labor to complete the extraction, and it reduces your overhead costs. At the same time, it improves your accuracy and precision, and increases your laboratory productivity.

Less Solvent



Increased Productivity



Less Labor



Increased Accuracy



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