Question: How do I reconstitute freeze-dried Reference Standards

The lyophilized (freeze-dried) Reference Standards are produced in a special process where the solvent is removed and the analyte is stored in a sealed glass ampoule under nitrogen. The Reference Standards are stored in refrigerator or freezer to maintain stability. The user must reconstitute by adding the desired solvent to the residue in the ampoule with a specified volume to obtain the desired concentration.

Most common used solvents are: methanol, ethanol or acetonitrile.

Reconstitution of the lyophilised reference standards.

- Allow the ampoule to warm up (if stored cool)

- Carefully break of the top of the ampoule*****

- Add the amount of desired solvent volume to the ampoule. (we advise to use a minimum of 500 ul to get all of the residue dissolved)

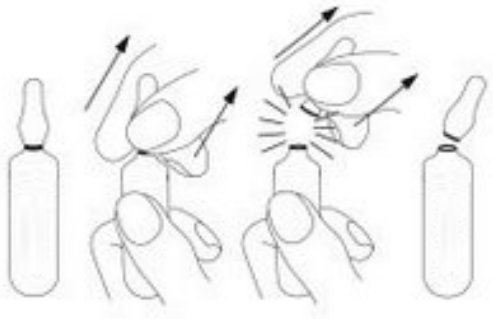
- Swirl, vortex and ultrasonicate (if possible)

- Transfer to a tube or vail with cap

- The standard can then be used for analyses

***)** To open the ampoule, hold it with both hands, with one thumb against the narrow top section. Hold the bottom of the ampoule firmly while pushing the top section away from you with easy, even pressure. A light pressure should cleanly snap the ampoule open, while using too much force can cause it to shatter. We recommend using a tissue/ gauze while opening the ampoule.

How to open ampoule:



Pressure can be applied at any point above the RING on the thicker part of the neck in a backward direction. *Do not hold too near to the ring and careful of the glass during breaking.