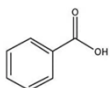


## ASSAY – ALICIA VALLS ARRUFAT (F19038Z)

Analyt: Benzoic acid



Volumetric solution: Sodium hydroxide 0.1M (NaOH)

Titre of volumetric solution: 0.998

**Type of titration:** It is an acid – base and also direct titration. Is an acid – base titration because we have an unknown quantity of acid (benzoic acid) and we estimate it by a known quantity of base (NaOH) and a direct one due to the substance is analysed for its quantity by another substance of known volume and concentration.

Titration No.	m [g] (4 decimal places) or V [ml]	Consumption of VS [ml]	ASSAY
1.	0.2002g	16.38ml	99.88%
2.	0.2004g	16.57ml	100.94%
3.	0.1999g	16.08ml	98.19%
4.	0.1989g	16.05ml	98.51%
<b>Average</b>			99.56%

## STATISTICAL EVALUATION:

Range:  $R = 2.03$ Standard deviation (estimated from range):  $sd = 0.986$ Relative standard deviation:  $RSD = 0.990$ 

**CONCLUSION** (does your sample meet/not meet Ph. Eur.): It meets the Pharmacopoeia due to we have a 99.56% of content and the content has to be between 99.0% and 100.5%.