**INTRODUCTION**

The authors also acknowledge the funding from CTQ2015-64684-P (MINECO/FEDER) and the Aragon Government (Fondo Europeo de Desarrollo Regional).

**GOALS**

**GOAL:** Assess the capabilities of SP-ICP-MS for characterizing AgNPs in wine without previous sample treatment.

Method development: spiking AgNPs solution in synthetic wine samples.

**EXPERIMENTAL**

**RESULTS AND DISCUSSION**

**FIGURES OF MERIT**

**CHARACTERIZATION**

- The developed method allows to characterize 80 and 200 nm AgNPs in synthetic wine without sample treatment.
- Matrix effects were found for non diluted samples. A simple dilution is recommended to characterize smaller NPs.

**CONCLUSIONS**

**SP-ICP-MS**

- Detection of single NPs
- Specific technique
- Capable of characterize NPs samples (size, mass and particle concentration)
- LODs - ppt

**SP-ICP-MS ANALYSIS**

**DATA TREATMENT**

- Calibration
- Sample
- Calibration

**RECOMMENDATIONS**

- The developed method allows to characterize 80 and 200 nm AgNPs in synthetic wine without sample treatment.
- Matrix effects were found for non diluted samples. A simple dilution is recommended to characterize smaller NPs.