

SACRYL PROJECT: "Strategy for the reduction of acrylamide in the productive process of soluble coffee"

A way to make Europe



EUROPEAN UNION



European Regional Development Fund (ERDF)
Operational Programme Smart Growth 2014-2020

PARTICIPATING ENTITIES: SEDA OUTSPAN IBERIA, SLU

FINANCING: Center for Industrial Technological Development (CDTI) of the Ministry of Economy, Industry and Competitiveness and co-financed by the European Union (ERDF Funds) through the Operational Programme Smart Growth (2014-2020).

CALL: CDTI- Individual R&D projects

Overall objective:

To reduce the acrylamide content of soluble coffee in SEDA Outspan Iberia through actions on the production process mainly in the phases of roasting and extraction. The aim is to study the impact of the process of making soluble coffee in the formation of acrylamide, to find the ideal operation that allows a reduction of this compound while maintaining an organoleptic profile and acceptable yields.

Specific objectives:

- To evaluate the impact of the degree of toasting on the acrylamide level.
- To evaluate the impact of raw material mixtures.
- To evaluate the impact of the extraction process.
- To define a new process.
- To analyze the sensory profile.
- To acquire advantage over the competition.
- To ensure higher sales and export ratios.

Conclusions

- The optimal roasting profile has been obtained for each of our recipes.
- The production process and the controls in it have been updated.
- The organoleptic profile has been maintained.
- Acrylamide levels have been reduced below the EU recommendation 2017/2158.