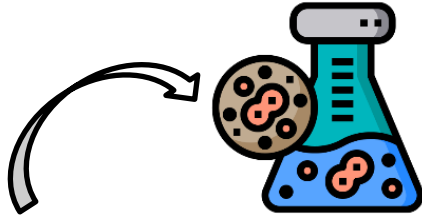
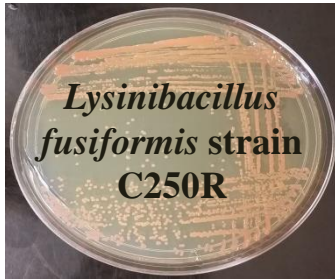


Graphical Abstract

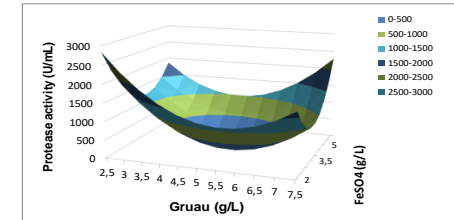
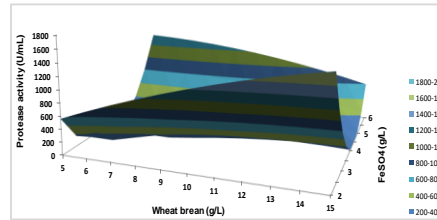
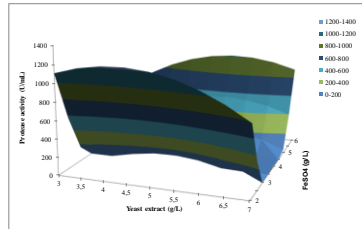


Statistical optimization

- 1- Plackett-Burman
- 2- Box-Behnken



Initial protease activity
= 680 U/mL

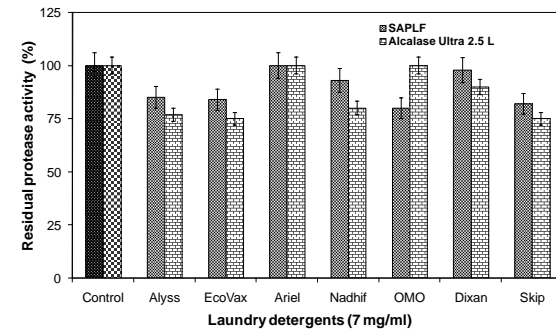
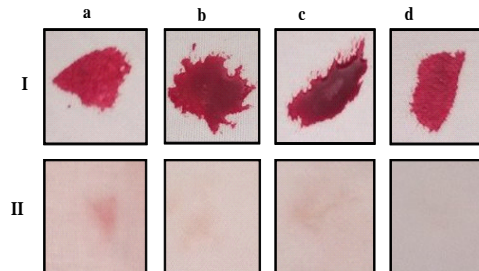


Optimized protease activity
= 3045 U/mL

Aerobic and halophilic strains



Geothermal oil field, TPS, Ramoura, Sfax,
Tunisia



Protease activity from strain C250R > Alcalase Ultra 2.5L