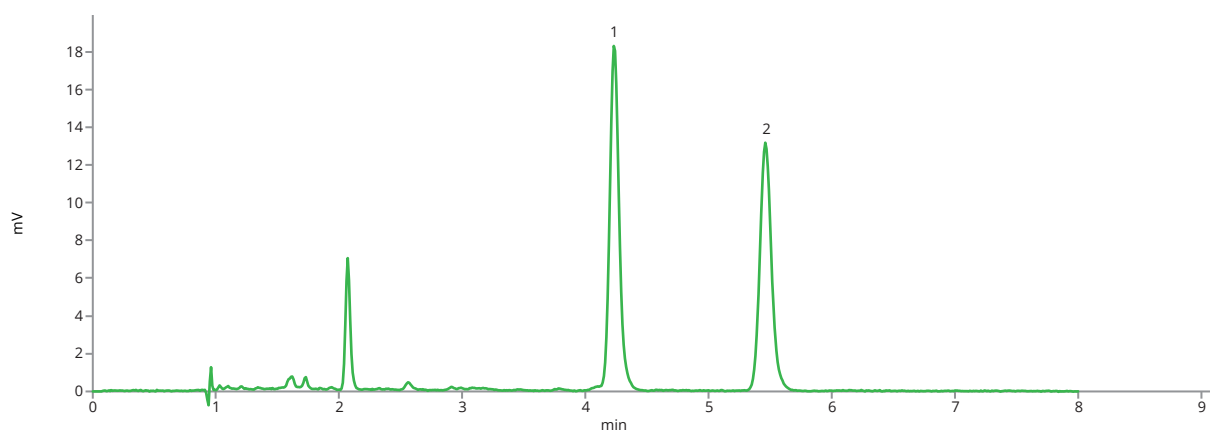
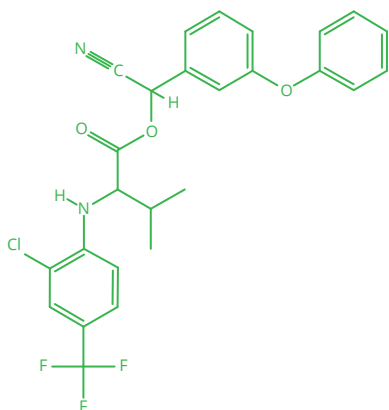


Pyrethroid insecticides

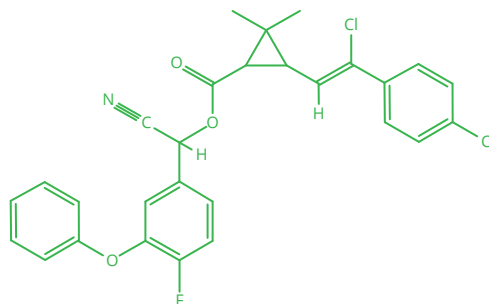
Flumethrin and fluvalinate are pyrethroid insecticides used to control mites in honeybee colonies. The treatment by these insecticides should be strictly controlled due to its toxic effects on health of honeybees. The described method allows to determine flumethrin and fluvalinate in honey and related biological samples matrixes.



Test solution on ASTRA®



Fluvalinate



Flumethrin



Pyrethroid insecticides

| | |
|---------------------|---|
| Column | ASTRA® C18-HE C18, 3.0 µm |
| Dimensions | 150 mm × 4.6 mm |
| Part number | AST-5732-IK46 |
| Mobile phase | ACN : water 90/10 (v/v) Isocratic elution |
| Flow rate | 1.5 mL/min |
| Temperature | 25 °C |
| Detection | PDA at 255 nm |
| Analytes | 1. Fluvalinate, CAS number 69409-94-5 2. Flumethrin, CAS number 69770-45-2 |

This application was developed
by the Beekeeping Research Institute.

