

Biotoools Agfood Line

The increasing social concern about food safety and quality, as well as the need to determine the amount of specific components in food, have resulted in tighter controls and new legislation, enforcing the set up of regulatory bodies in several countries with the aim of guaranteeing the implementation of safer and more reliable tests.

Biotoools has developed PCR based Kits for the detection and identification of GMOs and animal species, including the latest requirements related to the legal context in the major world markets concerning Agfood control.

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Why PCR based methods are the most convenient option?

DNA Amplification methods have important advantages over immunological, chemical and sequencing methods:

- They can be used with processed food and are not tissue specific as the immunological assays
- DNA Amplification methods are standardised methods which do not depend on the specific skills and experience of the technician
- DNA Amplification methods have been shown superior to others, in internal validation assays for GMO tests
- DNA Amplification is simple and more cost efficient than sequencing

Advantages of Biotoools Agfood Kits

- Sensitivity:** BIOGENICS kits can detect down to 0,01% of the specific GMO
BIOFOOD kits can detect down to 0,1% of vertebrate material
- Specificity:** BIOGENICS kits detects GMO species-specific sequences (e.g. Bt gene), plus 35S promoter sequences, using two amplification reactions. Therefore, the kit double-checks for presence of the GM plant
- Versatility:** Being a DNA-based technique, the kit is not tissue-specific, and can detect GMO material and vertebrate material in all samples, fresh or processed
- Reliability:** The kits include amplification control, that avoid the appearance of false negative results due to reaction inhibition
- Equipment:** There is no need to use special equipment
- Complete:** Specific DNA purification kit is included under request in Biogenics Kits. It has been specially designed to purify DNA from food samples, both fresh and processed, in order to achieve the highest yields while removing all potential inhibitors.

BIOGENICS Detection and Identification of GMOs and Specific Transgenic Events END POINT PCR

BIOGENICS - GMO detection

91.212	BIOGENICS STD kit - General detection of GMOs in food	48 rxns
91.222	BIOGENICS RoundUp Ready® Soya ID kit	48 rxns
91.232	BIOGENICS Bt-176 MAIZE ID kit	48 rxns
91.234	BIOGENICS Bt-11 MAIZE ID kit	48 rxns
91.236	BIOGENICS MON810 MAIZE ID kit	48 rxns
91.238	BIOGENICS T25 MAIZE ID kit	48 rxns

BIOFOOD Detection and Identification of Animal Species

END POINT PCR

BIOFOOD

91.112	BIOFOOD STANDARD kit - Detection of animal species in food	48 rxns
91.122	BIOFOOD IDENTIFICATION kit - Identification of animal species in food	48 rxns
91.132	BIOFOOD MIXED kit - Simultaneous Identification of animal species in homogeneous food samples	48 rxns

DNA Controls

91.001	Fish DNA	500 ng	91.007	Turkey DNA	500 ng
91.002	Dog DNA	500 ng	91.008	Sheep DNA	500 ng
91.003	Cat DNA	500 ng	91.009	Goat DNA	500 ng
91.004	Pork DNA	500 ng	91.010	Rabbit DNA	500 ng
91.005	Cow DNA	500 ng	91.011	Horse DNA	500 ng
91.006	Chicken DNA	500 ng	91.014	Human DNA	500 ng
			91.016	Goose DNA	500 ng

DNA Extraction Kits

21.176	SPEEDTOOLS FOOD DNA Extraction kit	50 rxns
21.177	SPEEDTOOLS FOOD DNA Extraction kit	250 rxns
21.171	SPEEDTOOLS PLANT DNA Extraction Kit	50 rxns
21.172	SPEEDTOOLS PLANT DNA Extraction kit	250 rxns

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