

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.



BIOTOOLS
BIOTOOLS B&M LABS.S.A.

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
- Real Time Amplification is quantitative and therefore the only method to determine low thresholds, as well as facilitate quantitative methods
- 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 Biotools 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. Real Time kits have been optimised for different platforms (Applied, Biorad, Corbett, Cepheid, etc)
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.

Biotoools AgFood Kits

BIOGENICS Detection, Identification and Quantification of GMOs in human & animal food

n REAL TIME

BIOGENICS QUALITATIVE kits - Real Time Detection and Identification of GMOs

91.402A	BIOGENICS QL STANDARD kit - Applied Biosystems	48 rxns
91.402B	BIOGENICS QL STANDARD kit - Biorad iCycler	48 rxns
91.402C	BIOGENICS QL STANDARD kit - Corbett Rotor-Gene™	48 rxns
91.402L	BIOGENICS QL STANDARD kit - Roche LightCycler®	48 rxns
91.402S	BIOGENICS QL STANDARD kit - Cepheid SmartCycler®	48 rxns

BIOGENICS QUANTITATIVE kits - Real Time detection and Quantification of GMOs

91.404A	BIOGENICS RoundUp® Ready Soya QT kit - Applied Biosystems	48 rxns
91.404C	BIOGENICS RoundUp® Ready Soya QT kit - Corbett Rotor-Gene™	48 rxns
91.406A	BIOGENICS Bt-176 QT MAIZE kit - Applied Biosystems	48 rxns
91.406C	BIOGENICS Bt-176 MAIZE QT kit - Corbett Rotor-Gene™	48 rxns

n END POINT

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, Identification and Quantification of Animal Species in food/feed

n REAL TIME

BIOFOOD QL Sheep ID Kit

91.902A	BIOFOOD QL Sheep ID kit - Applied Biosystems	48 rxns
91.902B	BIOFOOD QL Sheep ID kit - Biorad iCycler	48 rxns
91.902C	BIOFOOD QL Sheep ID kit - Corbett Rotor-Gene™	48 rxns
91.902L	BIOFOOD QL Sheep ID kit - Roche LightCycler®	48 rxns
91.902S	BIOFOOD QL Sheep ID kit - Cepheid SmartCycler®	48 rxns

BIOFOOD QL Turkey ID Kit

91.904A	BIOFOOD QL Turkey ID kit - Applied Biosystems	48 rxns
91.904B	BIOFOOD QL Turkey ID kit - Biorad iCycler	48 rxns
91.904C	BIOFOOD QL Turkey ID kit - Corbett Rotor-Gene™	48 rxns
91.904L	BIOFOOD QL Turkey ID kit - Roche LightCycler®	48 rxns
91.904S	BIOFOOD QL Turkey ID kit - Cepheid SmartCycler®	48 rxns

BIOFOOD QL Chicken ID Kit

91.906A	BIOFOOD QL Chicken ID kit - Applied Biosystems	48 rxns
91.906B	BIOFOOD QL Chicken ID kit - Biorad iCycler	48 rxns
91.906C	BIOFOOD QL Chicken ID kit - Corbett Rotor-Gene™	48 rxns
91.906L	BIOFOOD QL Chicken ID kit - Roche LightCycler®	48 rxns
91.906S	BIOFOOD QL Chicken ID kit - Cepheid SmartCycler®	48 rxns

BIOFOOD QL Pork ID Kit

91.908A	BIOFOOD QL Pork ID kit - Applied Biosystems	48 rxns
91.908B	BIOFOOD QL Pork ID kit - Biorad iCycler	48 rxns
91.908C	BIOFOOD QL Pork ID kit - Corbett Rotor-Gene™	48 rxns
91.908L	BIOFOOD QL Pork ID kit - Roche LightCycler®	48 rxns
91.908S	BIOFOOD QL Pork ID kit - Cepheid SmartCycler®	48 rxns

BIOFOOD QL Goat ID Kit

91.910A	BIOFOOD QL Goat ID kit - Applied Biosystems	48 rxns
91.910B	BIOFOOD QL Goat ID kit - Biorad iCycler	48 rxns
91.910C	BIOFOOD QL Goat ID kit - Corbett Rotor-Gene™	48 rxns
91.910L	BIOFOOD QL Goat ID kit - Roche LightCycler®	48 rxns
91.910S	BIOFOOD QL Goat ID kit - Cepheid SmartCycler®	48 rxns

BIOFOOD QL Beef ID Kit

91.912A	BIOFOOD QL Beef ID kit - Applied Biosystems	48 rxns
91.912B	BIOFOOD QL Beef ID kit - Biorad iCycler	48 rxns
91.912C	BIOFOOD QL Beef ID kit - Corbett Rotor-Gene™	48 rxns
91.912L	BIOFOOD QL Beef ID kit - Roche LightCycler®	48 rxns
91.912S	BIOFOOD QL Beef ID kit - Cepheid SmartCycler®	48 rxns

n END POINT

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

91.004	Pork DNA	500 ng
91.005	Cow DNA	500 ng
91.006	Chicken DNA	500 ng
91.007	Turkey DNA	500 ng
91.008	Sheep DNA	500 ng

91.009	Goat DNA	500 ng
91.010	Rabbit DNA	500 ng
91.011	Horse DNA	500 ng
91.014	Human DNA	500 ng
91.016	Goose DNA	500 ng



Biotools B&M Labs, S.A.
Valle de Tobalina, 52 nave 39
28021 Madrid, Spain
Tel.: +34 917 100 074
Fax: +34 915 053 118
info@biotools.eu
www.biotools.eu

www.biotools.eu