



MODfinder

Real-Time PCR detection kits portfolio
according to IWA 32 guidelines

***MODIfinder screening kits
detect the presence of
GMOs in a DNA extract***

The IWA 32 document provides requirements and recommendation to laboratories that perform GMO analysis in cottonseed, leaf, cotton fiber and cotton fiber-derived materials. The screening of six typic genetic modification elements is based on real-time PCR methods which depends on obtaining good quality amplifiable DNA. Good quality DNA samples (those fit for purpose) are defined as those where the amplification of an endogenous cotton gene is observed.

Generon developed a portfolio of kits to provide the customers a turn-key solution to test the presence of GM Cotton DNA fulfilling IWA 32 indications. The portfolio includes all the reagents and controls to execute the detection protocols



***FASTfood enables a
convenient extraction of
DNA from cotto yarn and
cotton lint***

IWA 32 suggests a DNA isolation method however, IWA 32 specifies also that any other suitable DNA isolation method can be applied, provided that this method has been proven by means of to perform equally well or better.

A. DNA Extraction kits

FASTfood – Kit for cotton yarn and lint DNA extraction (20 ml)	EXD009
FASTfood – Kit for cotton yarn and lint DNA extraction (100 ml)	EXD020
ION Force DNA Extractor FAST – Kit for cotton seed and leaf extraction (100)	EXD001
ION Spin K– Kit for cotton seed and leaf DNA extraction (50)	EXD018K
Proteinase K	EXD011
Proteinase K resuspension buffer	EXD010

B. Singleplex Real-Time PCR kits for GM Cotton markers detection (50 reactions)

MODfinder Cotton SAH7 endogenous reference	PGE21AIWA32-50
MODfinder 35S Promoter (p35S)	PGE01A-50
MODfinder NOS Terminator (tNOS)	PGE04A-50
MODfinder FMV Promoter (pFMV)	PGE17A-50
MODfinder OTP EPSPS	PGE30A-50
MODfinder PAT	PGE14AIWA32-50
MODfinder Cry1Ab/Ac	PGE25AIWA32-50
MODfinder IWA32 6-events prespotted strips	PGE18A-S

C. Multiplex Real-Time PCR kits for GM cotton markers detection (50 reactions)

MODfinder MultiSCREEN 2-plex p35S/tNOS	PGE05A-50
MODfinder MultiSCREEN 3-plex p35S/tNOS/pFMV	PGE26A-50
MODfinder MultiSCREEN 4-plex p35S/tNOS/pFMV + IAC	PGE26A-C-50

D. Quantified reference DNA (120 µL – 10 ng/ µL – 1% GM)

MODfinder GM Cotton MON1445	PGT02R
MODfinder GM Cotton 3006-210-23 x 281-24-236	PGT04R
MODfinder GM Cotton MON15985	PGT06R
MODfinder GM Cotton GHB614	PGT07R

Convenient strips with pre-spotted working mastermixes facilitate hands-on and increase reproducibility



E. MODfinder singleplex Real-Time PCR kits for GM cotton event ID (50 reactions)

PGT01A-50	Cotton MON531 (UID MON-00531-6)	PGT02A-50	Cotton MON1445 (UID MON-01445-2)
PGT03A-50	Cotton 281-24-236 (UID DAS-24236-5)	PGT04A-50	Cotton 3006-210-23 (UID DAS-21023-5)
PGT05A-50	Cotton LL25 (UID ACS-GH001-3)	PGT06A-50	Cotton MON15985 (UID MON-15985-7)
PGT07A-50	Cotton GHB614 (UID BCS-GH002-5)	PGT08A-50	Cotton MON88913 (UID MON-88913-8)
PGT09A-50	Cotton GHB119 (UID BCS-GH005-8)	PGT10A-50	Cotton T304-40 (UID BCS-GH004-7)
PGT11A-50	Cotton COT-102 (UID SYN-IR102-7)	PGT12A-50	Cotton MON88701 (UID MON-88701-3)
PGT13A-50	Cotton DAS81910 (UID DAS-81910-7)	PGT14A-50	Cotton GHB811 (UID BCS-GH811-4)



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ALLERGENS | GMO



F-1,2,3, Science Square, Above Reliance Fresh, Science City Road, Sola,
Ahmedabad - 380 060. (Gujarat) INDIA | +91- 72269 93030 | marketing@indifoss.com

 www.indifoss.com

 www.generon.it