



genespin

DATA SHEET

info@genespin.com - www.genespin.com

green line

> 2X Master Mix Standard GL (Green Line)

cat. no.	amount	note
STS-XMMixW 200* GL	5ml	2X XtraWhite Master Mix GL
STS-XMMixW 1000* GL	25ml	2X XtraWhite Master Mix GL
STS-XMMixRTL 200 GL	5ml	2X XtraRTL Master Mix GL
STS-XMMixRTL 1000 GL	25ml	2X XtraRTL Master Mix GL

*2X XtraWhite Master Mix is supplied with appropriate quantity of 6X Loading Dye

2X XtraWhite Master Mix GL and 2X XtraRTL Master Mix GL (Genespin proprietary formulation), are two premixed, ready-to-use solution containing Xtra-Taq Pol, dNTPs and MgCl₂ in a Reaction Buffer optimized for use in PCR amplification of targets present in low copy number and to avoid amplification of non-specific products. Both buffers contain 3.0mM magnesium, PCR enhancers and thickening agents (vortex thoroughly prior to use). **2X Master Mix Standard GL contain an internal fluorescent stain for DNA detection on Agarose gel directly after PCR amplification.**

2X XtraRTL Master Mix GL contains Orange G dye that allows gel loading and electrophoresis of the sample directly from the PCR tube, without further manipulation. 2X XtraWhite Master Mix GL is supplied with appropriate quantity of 6X Loading Dye. The Orange G dye migrates at the same rate as a duplex DNA fragment of approximately 50 Kbp and does not interfere with DNA migration when it is used as a loading dye for agarose gel electrophoresis.

FOR RESEARCH USE ONLY

SHIPPING

Shipped in green ice.

STORAGE

Store at -20C°. Avoid freeze/thaw cycles.

SHELF LIFE

12 months

FORM

Liquid

CONCENTRATION

2X conc.



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Assay Set-Up:

Before starting, vortex all components thoroughly to ensure homogeneity.

Prepare a premix for the number of assays you need according to the following protocol:

component	stock conc.	final conc.	30ul reaction
2X Master Mix GL	2X	1X	15.0ul
primers	1ug/ul each	50ng/ul each	2ul each
DNA Template	-	-	10-20ng
MG Water	-	-	up to 30ul

Cycling conditions:

Spin down the tubes/plate briefly to remove bubbles and place them into the cycler.

denaturation	95°C	5 min	1x
denaturation	95°C	30 sec	20-35x
annealing (1)	50-68°C	30 sec	
extension (2)	72°C	30sec	

1)The annealing temperature depends on the melting temperature of the primers used.

2)The elongation time depends on the length of the fragments to be amplified. A time of 1 min/kb is recommended.

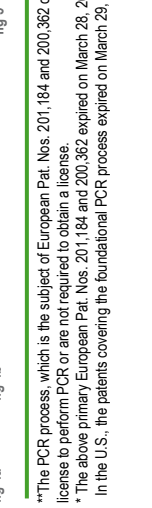
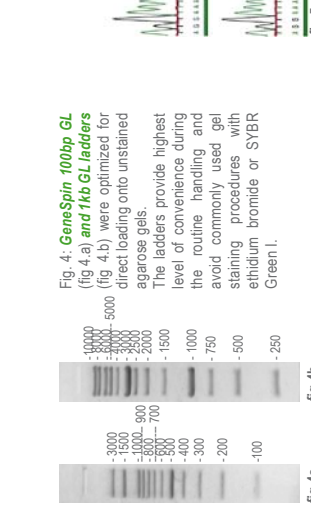
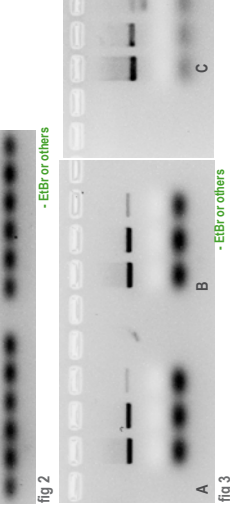
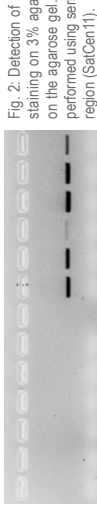
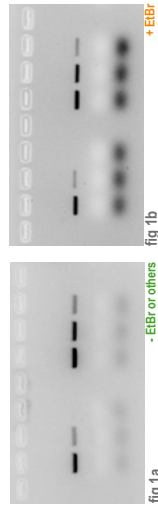
Scientist to Scientist GeneSpin PCR green line

OVERVIEW

green line No more post or pre-staining protocol for DNA on Agarose Gel

GeneSpin PCR green line (GeneSpin proprietary formulation), is a specific PCR products line focused on users safety.

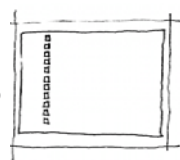
Either 2X PCR Mastermixes GL or 5x PCR buffers GL contain an internal fluorescent stain for DNA detection on Agarose gel directly after PCR amplification. This particular composition is able to avoid standard protocols for post- or pre-staining DNA on Agarose Gel with Ethidium Bromide (EB) or different dsDNA stains. The fluorescent used in **GeneSpin PCR green line reagents** has higher sensitivity than EB and has an easy, fast and robust staining procedure. Detection is possible by illuminating the Agarose Gel on a UV screen. Ames test II has shown a lower mutagenic potential compared to SYBR Green I and a much lower mutagenic potential than EB. Storage: protect GeneSpin GL reagents from light.



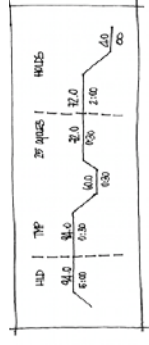
1. PCR* Sample Preparation



3. Run Agarose Gel



2. Run PCR*



4. Check under UV light



use UV light to detect signal

without add Gel Stain (NO EtBr or others)

ORDERING Information

CAT#:	STS-XMMixW	GL1000	2X XtraWhite Master Mix GL	(1000 reactions - 50ul)	- 25ml
CAT#:	STS-XMMixW	GL200	2X XtraWhite Master Mix GL	(200 reactions - 50ul)	- 5ml
CAT#:	STS-XMMixRTL	GL1000	2X XtraRTL Master Mix GL	(1000 reactions - 50ul)	- 25ml
CAT#:	STS-XMMixRTL	GL200	2X XtraRTL Master Mix GL	(200 reactions - 50ul)	- 5ml
CAT#:	STS-HXMMixW	GL1000	2X Hot StartXtraWhite Master Mix GL	(1000 reactions - 50ul)	- 25ml
CAT#:	STS-HXMMixW	GL200	2X Hot StartXtraWhite Master Mix GL	(200 reactions - 50ul)	- 5ml
CAT#:	STS-HXMMixRTL	GL1000	2X Hot StartXtraRTL Master Mix GL	(1000 reactions - 50ul)	- 25ml
CAT#:	STS-HXMMixRTL	GL200	2X Hot StartXtraRTL Master Mix GL	(200 reactions - 50ul)	- 5ml
CAT#:	XSTS-T5XRTL	GL1000	XtraTaq Pol with 5X XtraRTL GL Buffer	(1000U)	
CAT#:	XSTS-T5XRTL	GL250	XtraTaq Pol with 5X XtraRTL GL Buffer	(250U)	
CAT#:	XSTS-T5XW	GL1000	XtraTaq Pol with 5X XtraWhite GL Buffer	(1000U)	
CAT#:	XSTS-T5XW	GL250	XtraTaq Pol with 5X XtraWhite GL Buffer	(250U)	
CAT#:	STS-T1000GL	Taq Pol	with 10X Reaction Buffer GL	(1000U)	
CAT#:	STS-T250GL	Taq Pol	with 10X Reaction Buffer GL	(250U)	
CAT#:	STS-1Kb	GL DNA Ladder	GL 1Kb		
CAT#:	STS-100bp	GL DNA Ladder	GL 100bp		

*For research only, not for resale

**The PCR process, which is the subject of European Pat. Nos. 201,184 and 200,362 owned by Hoffmann-La Roche*, is covered by patents issued and applicable in certain countries. GeneSpin does not encourage or support the unauthorized or unlicensed use of the PCR process. Use of this product is recommended for persons that either have a license to perform PCR or are not required to obtain a license.
* The above primary European Pat. Nos. 201,184 and 200,362 expired on March 28, 2005.
In the U.S., the patents covering the foundational PCR process expired on March 29, 2005.