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DATA SHEET
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> 2X Master Mix Standard

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

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

2X XtraWhite Master Mix and 2X XtraRTL Master Mix (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 XtraRTL Master Mix contains dyes that allow gel loading and electrophoresis of the sample directly from the PCR tube, without further manipulation. 2X XtraWhite Master Mix is supplied with appropriate quantity of 6X Loading Dye.

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:

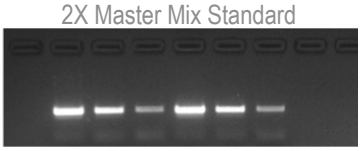
component	*stock conc.*	*final conc.*	*30ul reaction*
2X Master Mix	2X	1X	15.0ul
primers	1ug/ul each	50ng/ul each	2ul each
DNA Template	-	-	10-20ng
MG Water	-	-	up to 30ul

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.

2X Master Mix Standard



White RTL

Comparisons of the amplification efficiency of new ***2X Master Mixes*** **Standard** were performed using serial dilutions (1:10, 1:100, 1:1000) of Kiwi DNA and specific primers corresponding to pathogen PSA. The results are shown above. New GeneSpin Master Mixes demonstrated excellent specificity and high efficiency in amplifying the pathogen.

Dyes migration
All dyes migrates at the same rate as a duplex DNA fragment and does not interfere with DNA migration when it is used as a loading dye for agarose gel electrophoresis.

RTL Orange *Orange G migration TAE<50bp; TBE <50bp*

RTL Dark Green *Orange G migration TAE<50bp; TBE <50bp*
Xylene Cyanoff FF migration TAE 4160bp; TBE 3030bp

RTL Green *Tartrazine migration TAE<40bp; TBE <40bp*
Xylene Cyanoff FF migration TAE 4160bp; TBE 3030bp

RTL Bright Blue *Xylene Cyanoff FF migration TAE 4160bp; TBE 3030bp*