

# AviTooX™

Cat. No.: A10110 Cat. No.: A10111 Cat. No.: A10112

# Store at -20 °C

50 Reactions

100 Reactions

500 Reactions

 Component
 A10110
 A10111
 A10112

 AviToox™
 0.5 ml
 1ml
 5x 1ml

## Description: AviTooX<sup>™</sup> contains:

- AviTaq<sup>™</sup> (Taq DNA polymerase)
- Reaction buffer
- dNTPs mixture
- Protein stabilizer

And Optimizes the convenience to use by adding sediment for electrophoresis and 2X solution of loading dye. In general, **AviTooX™** show no decline of activity compare with **AviTaq™**, even in a room temperature.

AviTooX<sup>™</sup> is good for under <u>3 Kb of PCR</u> products.

# Kit storage:

AviToox<sup>™</sup> should be stored at -20 °C. Unnecessary repeated freeze/thawing should be avoided. Under these condition reagents are stable for two years from the date of production.

#### Features:

- Convenience to use and optimization
- 2mM final MgCl<sub>2</sub> concentration

## **General Reaction Protocol:**

- 1. Thaw AviTooX<sup>™</sup>.
- 2. Prepare a master mix as following table.

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Component	Volume	Final conc.
AviTooX™	10 µl	1X
Upstream Primer	1 µl	0.5 pmol/µl
(10 pmol/ μl)		
Downstream Primer	1 µl	0.5 pmol/µl
(10 pmol/ μl)		
Template DNA	Variable	10 fg~1 μg
PCR grade water	Variable	-
Total Volume	20 µl	-

- Mix the master mix and dispense appropriate volumes into PCR tubes. Centrifuge the reactions in a microcentrifuge for 10 seconds.
- Perform PCR using your standard parameters (3-step cycling).
- Separate the PCR products by agarose gel electrophoresis and visualize with AviStain<sup>™</sup>.

I hermai cycler could be adjusted as example table.			
Cycle	Time	Temp <sup>°</sup> C	
1	4 min	95	
	30 sec	94	
30-35	30 sec	57	
	30-60 sec	72	
1	5 min	72	

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Amplification protocol:

#### Agarose gel Electrophoresis:

Run the total 5-7  $\mu$ l of PCR products alongside 3 $\mu$ l DNA marker on a 2% agarose gel containing **AviStain<sup>TM</sup>**.

\* A DNA fragment which is amplified by Taq DNA Polymerase has A-overhang, and it enables you to do cloning by using T-vector.

#### Disclaimers:

**AviTooX<sup>™</sup>** is for **Research Use Only** and should only be used by trained professionals.

For PCR products longer than 3~4 Kb, use an extension time of approximately 1 min. per Kb DNA.

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