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**MANUAL**

Ref. SB0011

Expiry date: 1 year

**STORE AT -20°C**

GENEKAM PCR MASTERMIX SOLUTION

**-Only for research use-****-To be used by a technical person-**

Genekam PCR Master Mix is widely tested on different kind of micro organisms like human viruses, animal viruses, bacteria, fungi as well as normal DNA and RNA of animal and human origin. It is a good solution to develop the PCR test in shortest time.

contents: DNA polymerase, dATP, dCTP, dGTP, dTTP, MgCl<sub>2</sub> and other chemicals.

How to use this: it is sufficient to have total volume of 20 ul: 10 ul of Genekam Mastermix + 0.2-1 uM+ 2-50 ng DNA + molecular grade water (to fill the rest volume). In case of nested PCR, we recommend to use 5 ul in last step, however you have to see what is the optimal amount to run the nested PCR as it may be possible that you may need between 2.5 ul-10 ul master mix. In single step PCR, in some reactions 5ul may be sufficient as you have to test yourselves.

Here is one example to do PCR test for the human betaglobin: 10ul of Genekam Master Mix + 1-2 pmol of primers (some times, you may need more; test yourselves) + 1-2 ul of DNA + rest should be filled with molecular water.

After this, please run the PCR reaction in the PCR machine according your protocol.

For optimal specificity and amplification, one needs to do individual optimization.

**Recommendation: you can liquidate the Mastermix solution and freeze it at -20 to -80°C.**

**If you should find any mistakes, please let us know. Thank you.**

**Suggestion:**

This manual has been written specifically for beginners, hence persons with experience in PCR must use their experience to keep each step as small as possible e.g. you should calculate the amount of the needed chemicals, before starting with testing.

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