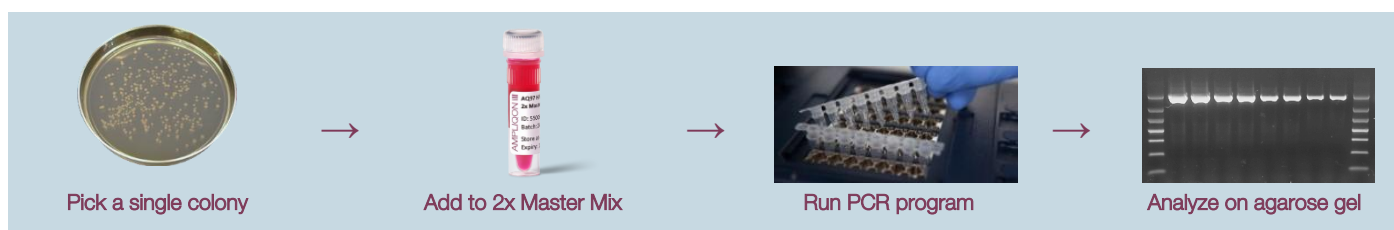


Rapid screening of bacterial and yeast colonies directly from crude samples

AQ97 HiFi Hot Start 2x Master Mix
AQ97 HiFi Hot Start 2x Master Mix RED

AMPLIQON 
PCR ENZYMES & REAGENTS



SAMPLE PREPARATION

A Direct method

- Pick one single colony (1-2 mm in size).
- Transfer it directly into the PCR tube containing the reaction mix.

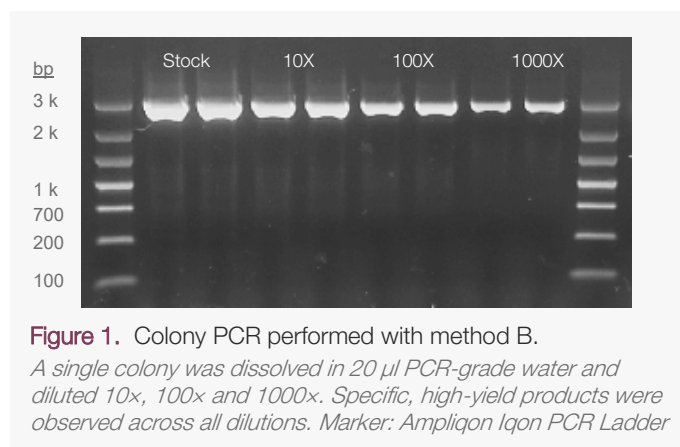
B Resuspension method

- Transfer one single colony into 10-20 µl PCR-grade water and vortex.
- Use 1 µl of the suspension per PCR reaction.

PCR PROTOCOL

Component	Vol./rxn	Final conc.
AQ97 HS HiFi MM	12.5 µl	1x
PCR-grade H ₂ O	10.5 µl	-
Forward primer (10 µM)	0.5 µl	0.2 µM
Reverse primer (10 µM)	0.5 µl	0.2 µM
Template	1 µl*	-
TOTAL	25 µl	-

* For method A, add one colony (1-2 mm in size).
For method B, add 1 µl of the bacteria suspension.



PCR PROGRAM

Temp.	Duration	Cycles
98 °C	2-5 min *	1
98 °C	10 sec	25-35
50-65 °C **	30 sec	
72 °C	30 sec	
72 °C	5 min	1

* Initial heating time can be adjusted based on the age of the colony.

** Annealing temperature depends on the primer set.

GEL ELECTROPHORESIS

Load 10 µl of the PCR product directly onto an agarose gel. Select agarose percentage based on product size.

TIPS

Method A

- Use minimal colony material
- Resuspend one colony in ≥3x reaction volume
- Excess colony may inhibit PCR

Method B

- Test a 10x dilution alongside the undiluted stock.
- Dilution often resolves inhibition

Annealing temperature

- Use the Ampliqon T_m calculator or run a gradient