

AmpliGrid AdvaBlue / AdvaGold PCR dye

These reagent kits have been especially designed for the use with the Advalytix AmpliGrid system and are only available through Advalytix.

Content AdvaBlue

Ref.	Component	Volume
OAX04243	AdvaBlue 10x concentrated	1 mL

Content AdvaGold

Ref.	Component	Volume
OAX04227	AdvaGold 10x concentrated	1 mL

Storage

Store at -20°C.

Ship components from -20°C to ambient temperature.

Quality control

Nuclease contamination

AdvaBlue & AdvaGold are tested for the absence of contaminating nuclease.

Absorption (λ max)

AdvaBlue: 590 - 595 nm

AdvaGold: 477 - 485 nm

Manufacturer

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User Guide

The AdvaBlue / AdvaGold PCR dyes have been optimized for the use with 1 µL amplification reactions on the AmpliGrid slide. Please refer to the AmpliGrid AG480F User Guide for further information about the AmpliGrid system before using this reagent kit.

NOTE: Although they have been tested successfully for the compatibility with various applications like qPCR, (RT-) PCR and sequencing. AdvaBlue or AdvaGold PCR dye might interfere with downstream fluorescent applications. The two dyes can be exchanged in PCR / RT-PCR set-ups according to eventual interference with the fluorescent dyes used for the detection.

Example protocol for the use of AdvaBlue with AmpliGrid GoTaq® PCR System

Materials

- AdvaGold / AdvaBlue PCR dye (Advalytix AG, OAX 04227/ OAX04243)
- AmpliGrid AG480F DNA free microliter reaction slide, 48 reaction sites each, incl. sealing solution (Advalytix AG, OAX04201)
- AmpliGrid GoTaq® PCR System
- Template DNA / single cell
- AmpliSpeed slide cycler (Advalytix AG, OAX04101 - OAX04103)
- In a sterile, nuclease free tube combine the components according to table 1.

1 Table 1: Composition of master mix

Component	Final Volume (1 slide)	Final Conc.
10x Gold Star Buffer ¹	6 µL	1 x
10x AdvaGold	6 µL	1 x
alternative: 10x AdvaBlue	6 µL	1 x
Upstream Primer	X µL	0.1 - 0.5 µM
Downstream Primer	Y µL	0.1 - 0.5 µM
GoTaq® DNA Polymerase (5 U / µL)	1.8 µL	0.15 U / µL
Template (if not predeposited on AmpliGrid slide)	Z µL	< 2ng human genomic DNA equivalent / µL
Nuclease Free Water	ad 60 µL	

¹Thaw completely and vortex thoroughly prior to use.

- Mix gently by vortexing and spin down shortly.
- Put the AmpliGrid slide on a dark surface to ensure good visualisation of the engraved markings.
- Pipette 1 µL of the PCR master mix to each of the AmpliGrid reaction sites.
- Cover each droplet with 5 µL of sealing solution.

NOTE: Ensure that there is no evaporation of the master mix before covering with the sealing solution. A divided workflow might be advisable.

- Perform PCR on the AmpliSpeed slide cycler using your standard parameters. An example profile is given in table 2.

2 Table 2: Recommended thermal cycling conditions for GoTaq® DNA-Polymerase-mediated PCR amplification. These guidelines are optimised for the AmpliSpeed slide cycler instrument. Annealing temperature should be optimised for each primer set based on the primer T_m.

Temperature	Time
95°C	2 - 10 min
95°C	30 sec
45 - 65°C	60 sec
72°C	60 sec
72°C	5 min

Tested reagents:

AdvaGold / AdvaBlue PCR dyes have been tested successfully in combination with the reagents listed in table 3.

3 Table 3: AdvaGold / AdvaBlue compatible reagents

QIAGEN® Multiplex PCR Kit
QIAGEN® TaqDNA Polymerase
ADVALYTIX GoTaq® PCR System
TaKaRa SYBR® Premix ExTaq
Advalytix Single Cell One-Step RT-PCR System

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