

geneMAG-Sequence

the magnetic dye-terminator removal kit

**For cleanup of sequencing
reaction with magnetic beads**

store the kit at room temperature



chemicell

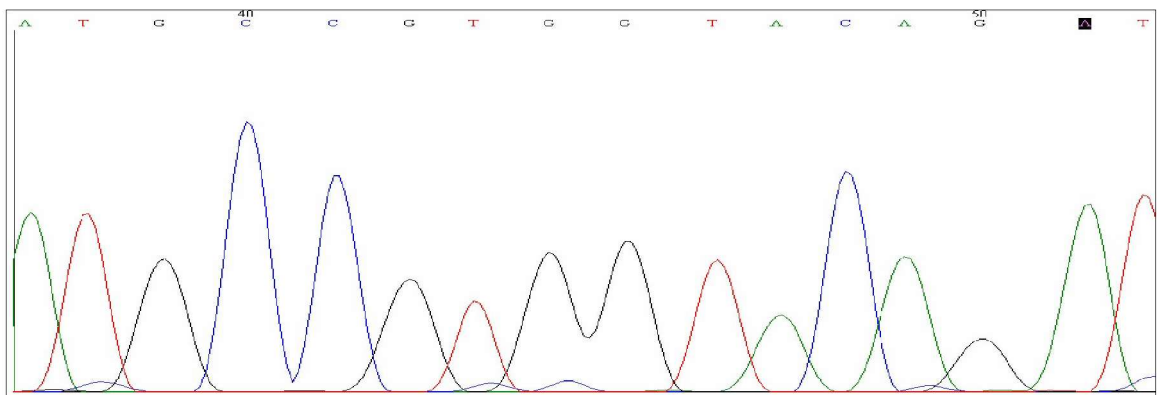
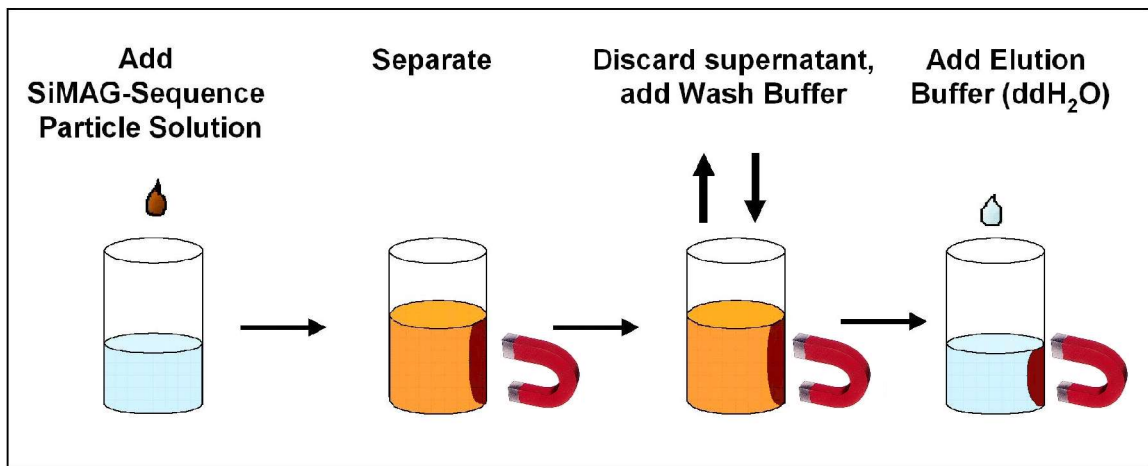
NEW TOOLS IN BIOSCIENCES

Technology

The **geneMAG-Sequence** dye-terminator removal kit is designed for removal of unbound fluorescently-labelled dideoxy-ribonucleotides (ddNTPs) and salt from sequencing reactions with magnetic particles.

This protocol can be performed directly in the thermal cycling plate. The **geneMAG-Sequence** kit contains an optimized magnetic particle solution to selectively bind sequencing extension products. Unincorporated dyes, nucleotides, salts and contaminants can be removed using a simple washing procedure.

The **geneMAG-Sequence** dye terminator removal kit is amenable to a variety of automatization platforms since it requires no centrifugation, vacuum filtration or caustic solutions.



Fluorescent sequencing profile purified with **geneMAG-Sequence**. (Data kindly provided by Mark Goldammer, Charité, University Hospital of Humboldt-University to Berlin, Germany)

Products

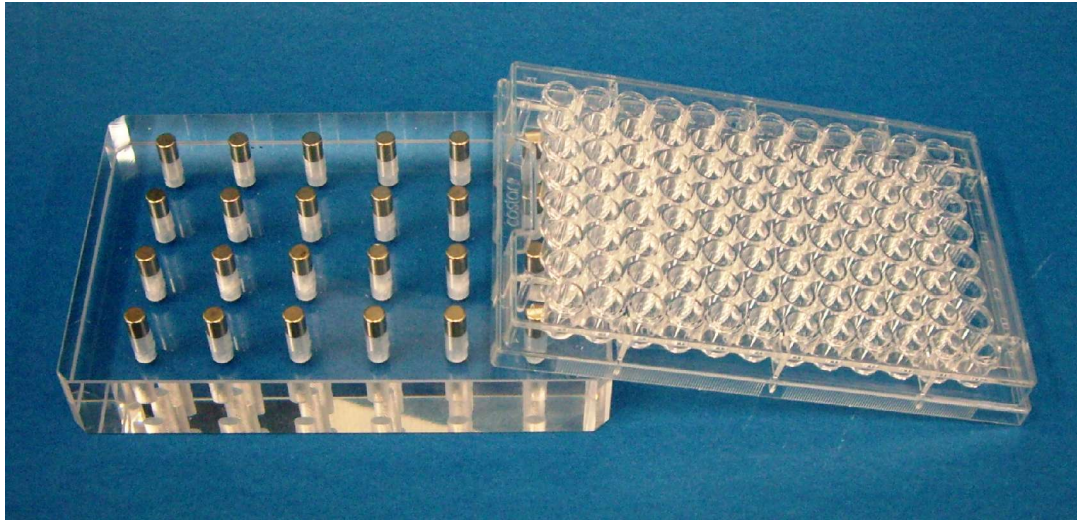
Kits	Contents	Number of Cleanups	Price Euro/US\$
geneMAG-Sequence 100 (Cat. No.: 3601-100)	<ul style="list-style-type: none">• 15 ml SiMAG-Sequence Particle Solution• 15 ml Wash Buffer	1 x 96 preps	50 / 65
geneMAG-Sequence 500 (Cat. No.: 3601-500)	<ul style="list-style-type: none">• 75 ml SiMAG-Sequence Particle Solution• 75 ml Wash Buffer	5 x 96 preps	200 / 260
geneMAG-Sequence 1000 (Cat. No.: 3601-1000)	<ul style="list-style-type: none">• 150 ml SiMAG-Sequence Particle Solution• 150 ml Wash Buffer	10 x 96 preps	350 / 460
MagnetoPURE 96 (Cat. No.: MP-30)			220 / 290

Reagents and Equipment to be Supplied by the User

- **ddH₂O** for elution of sequencing products from the beads
- **Vortex mixer** and **heating block** or water bath (60°C), **magnetic separator**

Utensils for magnetic dye-terminator removal

The **MagnetoPURE 96** separator is designed specifically to work with 96-well standard microplates (370 μ l, 0.8 ml, 1.2 ml and 2.2 ml). The position of the high powerful magnet guaranties fast and easy separation of the magnetic particles.



MagnetoPURE 96

→ **SPECIAL OFFER**

As an introductory offer you will receive a **geneMAG-Sequence 100** kit for free in combination with the purchase of the **MagnetoPURE 96** separator.

SPECIAL OFFER:	Cat. No.:	Price Euro/US\$
MagnetoPURE 96 geneMAG-Sequence 100	3601-SO	220 / 290

Protocol

This protocol describes the cleanup of sequencing products from dye-terminators and salts in 96-well plate format.

1. Add 150 μl **SiMAG-Sequence Particle Solution** to each well with the sequencing reaction products (10 μl up to 40 μl). Mix by pipetting up and down and incubate for 5 minutes.

Tip: *Resuspended the magnetic beads completely before use by vortexing*

2. Place the 96-well plate on a magnetic separator for 1 minute and collect the Beads. Remove and discard the supernatant.
3. Add 150 μl **Wash Buffer** mix and collect the Beads for 1 minute with the magnet, remove and discard the supernatant.
4. **Dry** the bead/sequence-pellet for 10 minutes at 60°C.
5. Add for elution 30 μl up to 50 μl **ddH₂O**, mix and incubate for 10 minutes at 60°C in a thermo-mixer.

Tip: *Complete resuspension of the Beads is important to recover high yields of sequencing reaction products*

6. Collect the beads with the magnet and transfer the solution with the eluted sequencing reaction products to new clean tubes. If the solution is not clear repeat the step.

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