

GeneFlow™ PCR Cleanup Kit Quick Protocol

For research use only

Catalogue Number

DFC004, DFC100, DFC300

Instruction Manual Download

When using this product for the first time, or if you are unfamiliar with the procedure, please scan the QR code and download the complete instruction manual.

Geneaid



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PCR Cleanup Protocol

1. Sample Preparation

Optional: Add **1 ml of PB Buffer** and **4 µl of pH Indicator** to a new 1.5 ml microcentrifuge tube, then mix by shaking gently. The color will turn to yellow.

Transfer **100 µl of reaction product** to a 1.5 ml microcentrifuge tube. Add **5 volumes of PB Buffer (or PB Buffer premixed with pH Indicator)** to the sample then vortex. If the mixture has turned from yellow to purple, add 10 µl of 3M sodium acetate (pH5.0) and mix thoroughly. This will adjust pH and the color will return to yellow.

2. DNA Binding

Place a **DFH Column** in a 2 ml Collection Tube. Transfer the sample mixture to the **DFH Column**. Centrifuge at 14-16,000 x g for 30 seconds. Discard the flow-through then place the **DFH Column** back in the 2 ml Collection Tube.

3. Wash

Add **600 µl of Wash Buffer (make sure absolute ethanol was added)** into the **DFH Column** and let stand for 1 minute. Centrifuge at 14-16,000 x g for 30 seconds then discard the flow-through. Place the **DFH Column** back in the 2 ml Collection Tube. Centrifuge at 14-16,000 x g for 3 minutes to dry the column matrix.

4. DNA Elution

Transfer the dried **DFH Column** to a new 1.5 ml microcentrifuge tube. Add **20-50 µl of (60-70°C) pre-heated Elution Buffer**, TE or water into the **CENTER** of the column matrix. Let stand for at least 2 minutes to allow the Elution Buffer, TE or water to be completely absorbed. Centrifuge at 14-16,000 x g for 2 minutes at room temperature to elute the purified DNA.

Components

Component	DFC004	DFC100	DFC300
PB Buffer	3 ml	80 ml	240 ml
pH Indicator	15 µl	360 µl	1 ml
3M Sodium Acetate (pH5.0)	N/A	200 µl	200 µl
Wash Buffer (Add Ethanol)	1 ml (4 ml)	25 ml (100 ml)	50 ml (200 ml)
Elution Buffer	1 ml	6 ml	30 ml
DFH Columns	4	100	300
2 ml Collection Tubes	4	100	300

GeneFlow™ PCR Cleanup Functional Test Data

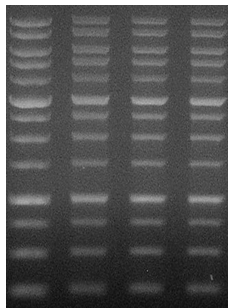


Figure 1. PCR product DNA fragments ranging from 250 bp-10 kb were extracted using the GeneFlow™ PCR Cleanup Kit (lane 1, 2, 3). The purified DNA concentration from a 50 μ l eluate was confirmed by spectrophotometer and analyzed by electrophoresis on a 1% agarose gel.

M = Geneaid 1 Kb DNA Ladder (control, total DNA = 1073 ng)

Test	DNA Conc.	260/280	Yield	Recovery
1	19.7 ng/ μ l	1.86	985 ng	91.8%
2	20.3 ng/ μ l	1.85	1015 ng	94.6%
3	20.5 ng/ μ l	1.86	1025 ng	95.5%

Storage

Dry at room temperature (15-25°C)