

Certificate of Analysis

Product: GENECLAN® II Kit
Catalog No.: 1001-400; 1001400
Lot No.: 83741

The GENECLAN® II Kit is designed to optimally purify DNA from solutions, agarose gels, acrylamide gels and enzymes reactions. DNA purified with GENECLAN is excellent for all uses, such as cloning, PCR, sequencing, or any other necessary reaction.

STORAGE CONDITIONS

All GENECLAN® Kits are shipped at room temperature. All GENECLAN® II reagents are stable at room temperature. NaI solution must be kept away from light and open air sources to prevent oxidation. NaI is packaged under nitrogen gas to further reduce chance of oxidation. Purging NaI's bottle with nitrogen gas is a preferred storage method after opening, especially for long-term storage. Ensure that the NaI cap is always very tight. Sealing the cap after opening and during long-term storage is also recommended. See the provided Kit Manual for further indications of NaI. Shelf life may be extended by storing at 4°C. Expiration date is April, 2017.

OPTIMAL REACTION PARAMETERS

Above 500 bp:
4.5 M NaI pH 7.0-7.4

Between 200-500 bp:
4.5 M NaI pH 6.0
New Wash/Ethanol Concentration must be ~ 50%

SPECIFICATIONS

Reagent: NaI
pH Range: 7.0-7.4
6 M NaI
NaI melted 0.1 g gel slice in 5 minutes at 55°C
Less than 15% DNA 1 kb and above is left unbound in NaI.

NaI
Cat #: 1001401
Lot #: 76565
Passed

Reagent: NEW WASH
pH Range: 7.4-8.0
Removed salts from GLASSMILK pellet without eluting off DNA. Less than 1% DNA was lost from GLASSMILK during the NEW WASH step.

NEW WASH
Cat #: 1001402
Lot #: 36100
Passed

Reagent: TBE Modifier
pH Range: 5.8 +/- 0.2
TBE Modifier aids in melting TBE gel slices and reverses inhibitory effects of borate buffer. Less than 20% DNA was left unbound in the NaI/TBE Modifier solution.

TBE Modifier
Cat #: 1001403
Lot #: 37437
Passed

Reagent: GLASSMILK
Had binding capacity of 1 mg DNA/1 ml GLASSMILK. Greater than 85% of the DNA bound in 5 minutes at room temperature.

GLASSMILK
Cat #: 1001404
Lot #: 52866
Passed

REAGENT PERFORMANCE

All reagents are stable at room temperature. Overexposure to oxygen or contaminants will cause oxidation and subsequently a rise in the pH of the NaI. Thus reducing the shelf life. Yellowing of NaI may be an indication of such oxidation.

One microliter of GLASSMILK will bind up to one microgram of DNA in 4.5 M NaI within 5 minutes at room temperature.

In order to pass quality control tests:

Less than 5% of DNA is lost during treatment with NEW WASH.

Enzymes, primers, and salts must be removed.

TBE yield must be 80% of the original material with 20% left in NaI/TBE Modifier.

No endonuclease contamination detected after incubation for 16 hours at 37° C.

Conclusions: This lot of GeneClean II is released for product sales.



03/16/2016 - John Huang, PhD
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Quality Control Manager

MSDS available online at www.mpbio.com