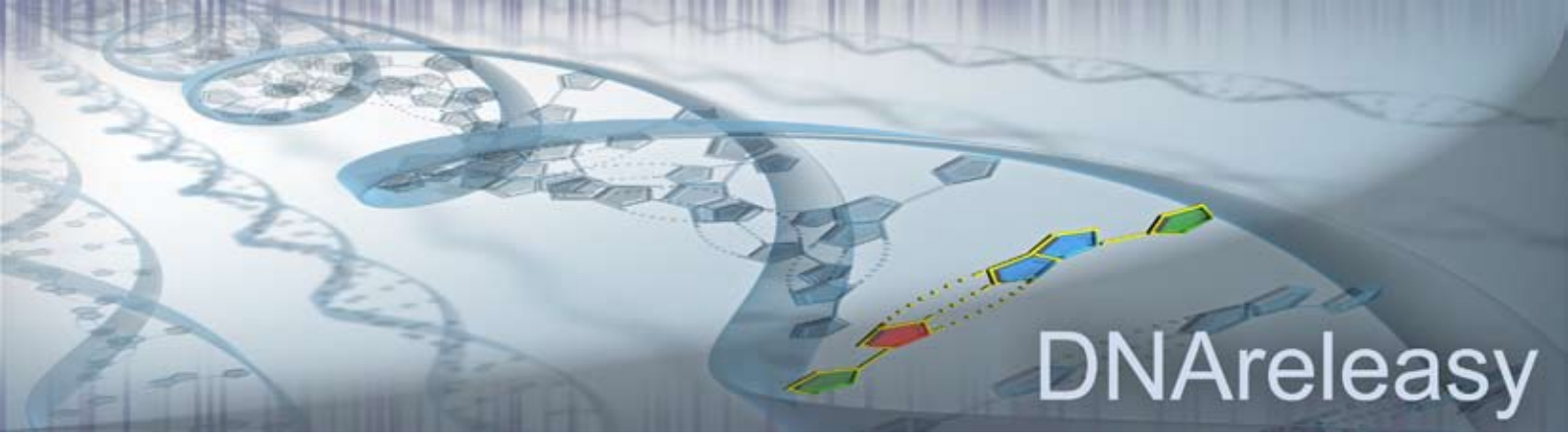

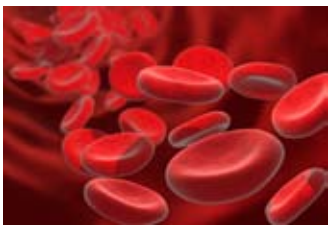

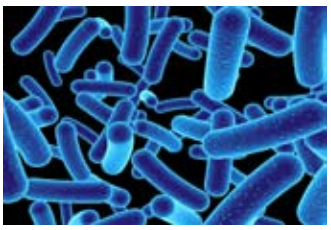


Go from cells to PCR in less than 10 mins!

Nippon Genetics Europe is proud to introduce a novel reagent for the lysis of cells and the release of genomic DNA. No spin columns or extractions, just a 10 minute incubation on a thermal cycler and the DNA is ready for the PCR process.
DNAreleasy has been succesfully used to lyse the following:
Human Buffy coat, Human fibroblasts tissue culture cells, Human sperm
Mouse & rat tissue culture cells, Mouse tail.
Various plants (leaf, flower and flour): Arabidopsis, Cabbage, Oilseed Rape, Oats, Soya & Maize.
Flea, Drosophila and others like yeast, Gram +ve bacteria, Gram –ve bacteria, Viruses and many more ...

Protocol:

1) Mix cells with 20 µl of DNAreleasy. It is important that the lysis solution covers the cells completely.

2) Overlay with mineral oil if necessary (for Thermal Cycler without heated lid)

3) Place in a Thermal Cycler
Step 1: 75°C for 5 mins
Step 2: 96°C for 2 mins
Step 3: 20°C hold

After the lysis, a part or all of the DNAreleasy-lysate can be used directly in PCR. DNAreleasy can make up to 40% of most PCR mixes. Or it can be stored at -20°C for future use.

1 Year Shelf Life

Ordering information

LS01	DNAreleasy; 10 preparations
LS02	DNAreleasy; 50 preparations

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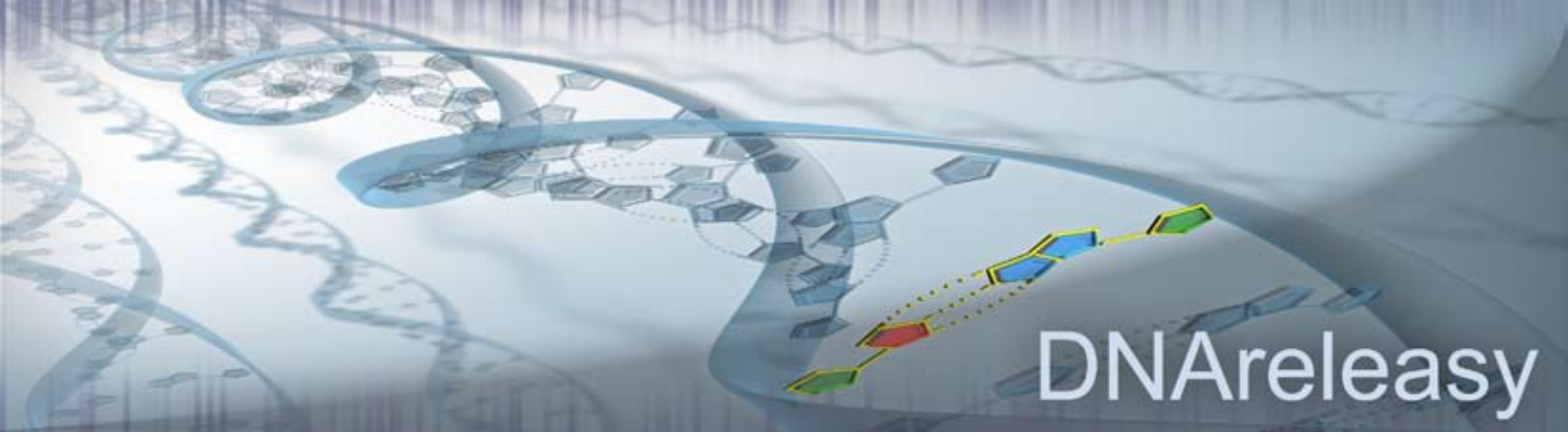
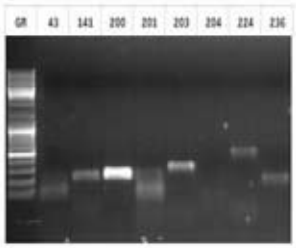
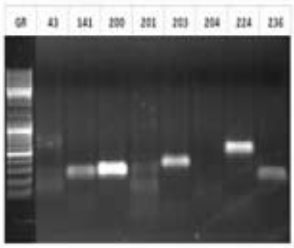


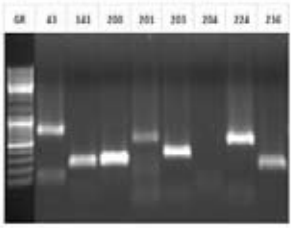
Applications: Mouse Tails and Ears



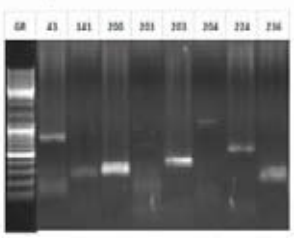
Competitor V
Overnight incubation



Pro K digestion
Overnight incubation



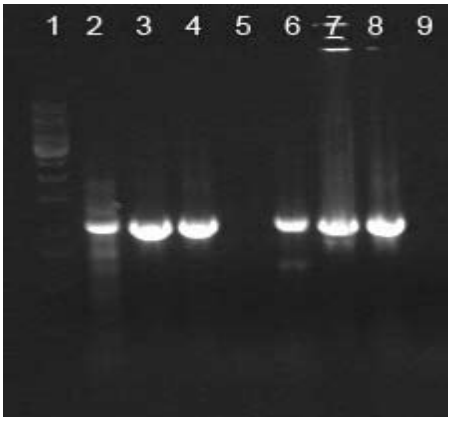
DNAreleasy (7 min.)



Homemade method

Data kindly provided by Dr. John Foskett, Kapa Biosystems, Cape Town; South Africa.
Comparison of 4 different lysis methods. The lysate was used in the amplification of 8 different amplicons by PCR using KAPA2G Robust Hot Start ReadyMix (Kapa Biosystems, Cape Town, South Africa).

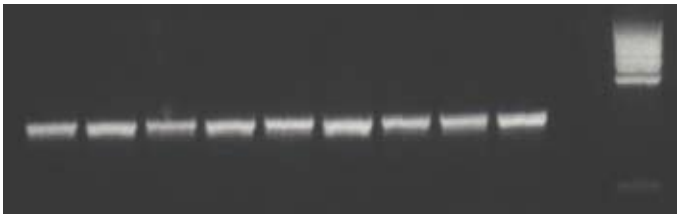
Applications: HT-29 colon carcinoma cells



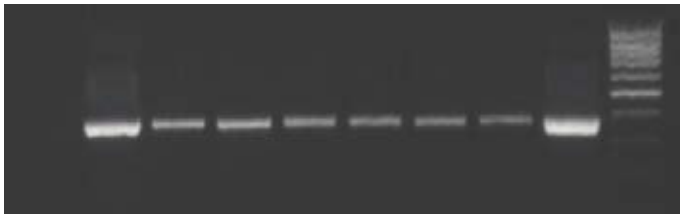
1	DNA marker
2	DNAreleasy lysate, cell culture of HT-29 colon carcinoma cells, amplified with Kapa 2G Robust Hot Start
3	Plasmid DNA, amplified with Kapa 2G Robust Hot Start
4	Plasmid DNA and cell culture lysate, amplified by Kapa 2G Robust Hot Start
5	Negative control
6	DNAreleasy lysate, cell culture of HT-29 colon carcinoma cells, amplified with Kapa 2G Robust Hot Start (a different primer set was used)
7	Plasmid DNA, amplified with Kapa 2G Robust Hot Start (a different primer set was used)
8	Plasmid DNA and cell culture lysate, amplified by Kapa 2G Robust Hot Start (a different primer set was used)
9	Negative control

Data kindly provided by Ms. Gudrun Wahlström, Faculty of Medicine, University of Turku, Finland.
Statement: *"This kit worked very well without any optimization. It is a very simple procedure and the combination with the Kapa 2G Robust Hot Start enzyme leads to superior results".*

Applications: Arabidopsis and oats: Seeds, leaves and buds



1. Arabidopsis (actin primers) 445 bp fragment
Lane 1 bud - 2 bud - 3 bud - 4 bud - 5 leaf - 6 leaf - 7 leaf - 8 leaf - 9 +ve control - 10 -ve control - 11 size ladder



2. Oats (actin primers) 380 bp fragment
Lane 1 -ve control - 2 seed - 3 seed - 4 seed - 5 leaf - 6 leaf - 7 leaf - 8 leaf - 9 +ve control - 10 size ladder

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