



Agilent DNA 1000 Kit Quick Start Guide

Kit Components

Table 1 DNA 1000 Kit

Agilent DNA 1000 Kit (reorder number 5087-1504)

DNA Chips	DNA 1000 Reagents (reorder number 5080-1505)
25 DNA Chips	■ (yellow) DNA Ladder
1 Electrode Cleaner	■ (green) DNA Markers (2 vials)
Syringe Kit	■ (blue) DNA Gelo Concentrate ¹ (1 vial)
1 Syringe	■ (red) DNA Gel Matrix (3 vials)
3 Spin Filters	

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Assay Principles

Agilent DNA kits contain chips and reagents designed for sizing and analysis of DNA fragments. Each Agilent DNA kit contains an interconnected set of micro-channels that is used for separation of nucleic acid fragments based on their size as they are driven through it electrophoretically. Agilent DNA kits are designed for use with the Agilent 2100 Bioanalyzer only.

Assay Kits

The Agilent DNA 1000 kit provides higher resolution of smaller fragments in comparison of our other DNA sizing kits. It can be used for the following applications:

- Analysis of PCR and RT-PCR products
- RFLP analysis
- Heteroduplex analysis using mismatch cleavage enzymes
- QPCR of sequencing templates

The complete DNA 1000 kit guide can be found in the online help of the 2100 Expert Software.



Agilent Technologies

Agilent Dna 1000 Kit Quick Start Guide

RD Boyd

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Hydrogenase: Structure, Function, Maturation, and Application Stefan Frielingsdorf,Francesca Valetti,Constanze Pinske,Chris Greening,2023-10-24 Molecular hydrogen H₂ is an important molecule in the metabolism of diverse microorganisms It is used either as energy source or for the disposal of reducing equivalents depending on environmental conditions Furthermore H₂ transmits energy between different species within microbial communities The enzymes that split or evolve H₂ are called hydrogenases and these metalloproteins can be divided into three phylogenetically unrelated classes distinguishable by the metal composition of their active sites namely Fe FeFe and NiFe hydrogenases Following a century of hydrogenase research it is now possible to isolate handle and investigate these fragile enzymes There have been numerous advances in understanding the regulation function structures and maturation of these enzymes as well as their involvement in important processes such as microbial pathogenesis and biogeochemical cycling The employment of hydrogenases and hydrogenase based applications could also potentially facilitate the world's transition to a future sustainable H₂ based energy economy

Sheep and Goat Gene Exploration Shaobin Li,Rui Su,Xin Wang,2022-04-25 *Forensic Genetic Approaches for Identification of Human Skeletal Remains* Angie Ambers,2022-11-15 *Forensic Genetic Approaches for Identification of Human Skeletal Remains Challenges Best Practices and Emerging Technologies* provides best practices on processing bone samples for DNA testing The book outlines forensic genetics tools that are available for the identification of skeletal remains in contemporary casework and historical archaeological investigations Although the book focuses primarily on the use of DNA for direct identification or kinship analyses it also highlights complementary disciplines often used in concert with genetic data to make positive identifications such as forensic anthropology forensic odontology and forensic art sculpting Unidentified human remains are often associated with tragic events such as fires terrorist attacks natural disasters war conflicts genocide airline crashes homicide and human rights violations under oppressive totalitarian regimes In these situations extensive damage to soft tissues often precludes the use of such biological samples in the identification process In contrast bone material is the most resilient viable sample type for DNA testing DNA recovered from bone often is degraded and in low quantities due to the effects of human decomposition environmental exposure and the passage of time The complexities of bone microstructure and its rigid nature make skeletal remains one of the most challenging sample types for DNA testing Provides best practices on processing bone samples for DNA testing Presents detailed coverage of proper facilities design for skeletal remains processing selection of optimal skeletal elements for DNA recovery specialized equipment needed preparation and cleaning of bone samples for DNA extraction and more Highlights complementary disciplines often used in concert with genetic data to make positive identifications such as forensic anthropology forensic odontology and forensic art sculpting

Genetics, Genomics and -Omics of Thermophiles, 2nd Edition Kian Mau Goh,Kok-Gan Chan,Rajesh Kumar Sani,Edgardo Rubén Donati,Anna-Louise Reysenbach,2019-06-13 This eBook is a collection

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Implications of lipids and modified lipoproteins in atherogenesis: From mechanisms towards novel diagnostic and therapeutic targets Alexander Akhmedov, Chu-Huang Chen, Tatsuya Sawamura, 2023-08-01 **Southern California Coastal Water Research Project Annual Report** Southern California Coastal Water Research Project, 2013 [Cancer Research](#), 2009-07 **Journal of Clinical Microbiology**, 2004 [Tissue Engineering](#), 2008 [American Laboratory](#), 2000 **International Journal of Oncology**, 2008 [The Journal of Immunology](#), 2007-12 **Proceedings of the Entomological Society of Washington** Entomological Society of Washington, 2018 List of members in v 1 3 5 14 [|||||](#), 2014 *Journal of the National Cancer Institute*, 2005 Summaries of papers contained in the journal accompany each issue 19 **Journal of Oil Palm Research**, 2019 [Proceedings of the National Academy of Sciences of the United States of America](#) National Academy of Sciences (U.S.), 2004 **Genetic Engineering News**, 2005 **Environmental Toxicology and Chemistry**, 2006

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