



Agilent DNA 1000 Kit Quick Start Guide

Kit Components

Table 1 DNA 1000 KH

Agilent DNA 1000 Kit (reorder number 5087-1504)	
DNA Chips	DNA 1000 Reagents (reorder number 5087-1505)
25 DNA Chips	■ (yellow) DNA Ladder
1 Electrode Cleaner	■ (green) DNA Markers (2 vials)
Syringe Kit	● (blue) DNA Dye 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 microchannels 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 analyses
- Heteroduplex analysis using mismatch cleavage enzymes
- QC 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

M Mark



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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 FeFeFe 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 is often 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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web april 8 2009 it was the 2nd wednesday of 2009 if you were born on this date your birthday numbers 4 8 and 2009 reveal that your life path number is 5 your zodiac sign is aries with a ruling planet mars your birthstone is the diamond and your birth flower is the sweet pea daisy

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web answer $\text{Na}^+ \text{aq}$ and $\text{SO}_4^{2-} \text{aq}$ identify the chemical equation the spectator ions $\text{KOH} \text{aq}$ HNO_3 $\text{KNO}_3 \text{aq}$ H_2O $\text{K}^+ \text{aq}$ $\text{OH}^- \text{aq}$ $\text{H}^+ \text{aq}$ $\text{NO}_3^- \text{aq}$ $\text{K}^+ \text{aq}$ $\text{NO}_3^- \text{aq}$ H_2O answer $\text{K}^+ \text{aq}$ and $\text{NO}_3^- \text{aq}$ identify the chemical equation the spectator ions $\text{Pb}^{2+} \text{aq}$ $\text{NO}_3^- \text{aq}$ $\text{PbI}_2 \text{s}$ $\text{KNO}_3 \text{aq}$

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web these ions are called spectator ions because they do not participate in the actual reaction canceling the spectator ions gives the net ionic equation which shows only those species that participate in the chemical reaction $2\text{Ag}^+ \text{aq} + \text{Cr}_2\text{O}_7^{2-} \text{aq} \rightarrow 2\text{Cr}^{3+} \text{aq} + 7\text{H}_2\text{O}$

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web chemical equation in which all dissolved ionic reactants and products including spectator ions are explicitly represented by formulas for their dissociated ions molecular equation chemical equation in which all reactants and products are

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web jan 29 2020 the ionic form of this reaction is $2\text{Na}^+ \text{aq} + 2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} + \text{SO}_4^{2-} \text{aq} \rightarrow 2\text{Na}^+ \text{aq} + \text{SO}_4^{2-} \text{aq} + \text{CuCl}_2 \text{s}$ the sodium ions and sulfate ion are the spectator ions in this reaction they appear unchanged in both the product and reactant side of the

equation

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web mar 11 2014 solution ionic equation $\text{H}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{Na}^+ \text{aq} + \text{HCO}_3^- \text{aq} + \text{Na}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ the spectator ions are Cl^- and Na^+
 net ionic equation $\text{H}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{Na}^+ \text{aq} + \text{HCO}_3^- \text{aq} + \text{Na}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g} \rightarrow \text{H}^+ \text{aq} + \text{HCO}_3^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ here is a video on spectator ions
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web the six NO_3^- ions and the six Na^+ ions that appear on both sides of the equation are spectator ions that can be canceled to give the net ionic equation $3\text{Ba}^{2+} \text{aq} + 2\text{PO}_4^{3-} \text{aq} \rightarrow \text{Ba}_3(\text{PO}_4)_2 \text{s}$

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web these spectator ions whose presence is required to maintain charge neutrality are neither chemically nor physically changed by the process and so they may be eliminated from the equation to yield a more succinct representation called a

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web video answer you know spectator ions are the ions present on the both sides of the equation indicate cancels out in the total ionic equations so you know in a case chemical reactions are described with chemical equations which symbolically present the starting materials end products

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web net ionic equations an equation for a reaction in solution showing only those particles that are directly involved in the chemical change spectator ions an ion that is not directly involved in a chemical reaction an ion that does not change oxidation number or composition during a reaction products

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web the equation below is the final net ionic equation after elimination of the spectator ions which yields water $\text{H}^+ \text{aq} + \text{OH}^- \text{aq} \rightarrow \text{H}_2\text{O} \text{l}$ the spectator ions in $\text{KOH} \text{aq}$ and $\text{HNO}_3 \text{aq}$ are $\text{K}^+ \text{aq}$ and $\text{NO}_3^- \text{aq}$ how to identify and list the

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web ionic equations and spectator ions in chemistry an ion is an atom or molecule that has a net electric charge due to the loss or gain of one or more electrons ions containing positive charge are cations and those containing negative charge are anions an ion with a net charge of zero is electrically neutral

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spectator ion can therefore be observed in the reaction of aqueous solutions of sodium carbonate and copper ii sulfate but does not affect the equilibrium what are spectator ions

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web the ag aq and cl aq ions become agcl s but the na aq ions and the no 3 aq ions stay as na aq ions and no 3 aq ions these two ions are examples of spectator ions ions that do nothing in the overall course of a chemical reaction

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web aug 8 2022 a spectator ion is an ion that does not take part in the chemical reaction and is found in solution both before and after the reaction the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction

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web the new format requires students to write balanced chemical equations showing only the reacting substances excluding spectator ions for three different sets of reactants and to answer a short question requiring no calculator about each reaction the questions are intended to test the students understanding of the meaning of the reactions

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web jun 2 2023 the spectator ions are cut out from a reaction hence the net ionic equation for the above reaction would be $2\text{Cl}^- \text{aq} + \text{Cu}^{2+} \text{aq} \rightarrow \text{CuCl}_2 \text{s}$ these spectator ions are not actively involved in the reaction the existence of spectator ions affects the debye length