



Agilent 2100 Bioanalyzer



Installation and Safety Guide

Notices

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Safety Notices

CAUTION

A **CAUTION** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood and met.

WARNING

A **WARNING** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a **WARNING** notice until the indicated conditions are fully understood and met.

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1 Safety Information

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The following general safety precautions must be observed during all phases of operation, service, and repair of the Agilent 2100 Bioanalyzer.

All safety instructions should be read and understood before installation, operation and maintenance of the instrument. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the instrument.

Agilent Technologies assumes no liability for the customer's failure to comply with these requirements.

WARNING

A WARNING notice denotes a hazard.

It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death.

→ Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.



1 Safety Information

CAUTION

A CAUTION notice denotes a hazard.

It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data.

→ Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

NOTE

Instrument Safety: This is a Safety Class I instrument (provided with a terminal for protective grounding) and has been manufactured and tested according to international safety standards.

Power Cords

Different power cords are offered as options with the Agilent 2100 Bioanalyzer. The female end of all power cords is identical. It plugs into the power-input socket at the rear of the instrument. The male end of each power cord is different and designed to match the wall socket of a particular country or region.

WARNING

Electric Shock

The absence of ground connection and the use of an unspecified power cord can lead to electric shock or short circuit.

- Never operate your instrument from a power outlet that has no ground connection.
 - Never use a power cord other than the Agilent Technologies power cord designed for your region.
 - Never use cables other than those supplied by Agilent Technologies to ensure proper functionality and compliance with safety or EMC regulations.
-

Operation

WARNING

Ensure the proper usage of the equipment

The protection provided by the equipment may be impaired.






→ The operator of this instrument is advised to use the equipment in a manner as specified in this manual.

Before the instrument is switched on, all protective ground terminals, extension cords, auto-transformers, and devices connected to it must be connected to a protective ground socket. Any interruption of the protective grounding will cause a potential shock hazard that could result in serious personal injury. Whenever it is likely that the protection has been impaired, the instrument must be made inoperative and be secured against any intended operation.

To operate the instrument safely:

- Do not remove any cover of the Agilent 2100 Bioanalyzer
- Avoid any maintenance of the instrument under voltage
- Do not let liquid drip into the Agilent 2100 Bioanalyzer. It could cause a shock or it could damage the Agilent 2100 Bioanalyzer.
- Do not replace components of the instruments (e.g. electrode cartridge or pressure cartridge) with power turned on.
- Do not operate the instrument in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.
- Do not install substitute parts or make any unauthorized modification to the instrument.

Safety Symbols

Symbol	Description
	Electrosensitive device.
	The apparatus is marked with this symbol when the user should refer to the <i>Installation and Safety Manual</i> in order to prevent risk of harm to the operator and to protect the apparatus against damage.
	Indicates dangerous voltages.
	Indicates a protected ground terminal.
	Laser Radiation. When open avoid exposure to beam.

Laser Safety

The Agilent 2100 Bioanalyzer is classified as a "Laser Class 1" product (IEC825-1, CFR1040.10). During normal operation of the Agilent 2100 Bioanalyzer no laser light is accessible to the user.

When the laser is in use, the laser light source emits light at a power that may be harmful to the eyes. To prevent operator exposure to potentially harmful laser light, an interlock mechanism turns off the laser whenever the lid of the Agilent 2100 Bioanalyzer is not closed. Furthermore, the lid can't be completely opened and has a black light absorbing surface in order to prevent any potential laser light reflection.

WARNING

Harmful laser light

The laser light source emits light at a power that may be harmful to the eyes.

- Never look into the beam or direct it towards someone else.
 - System interlocks should never be disabled.
-

Chemical and Biological Safety

WARNING

Toxic and hazardous solvents

The handling of solvents and reagents can hold health risks.

- When working with solvents observe appropriate safety procedures (for example, goggles, safety gloves and protective clothing) as described in the material handling and safety data sheet supplied by the solvent vendor, especially when toxic or hazardous solvents are used.
-

WARNING

Pathogenic, toxic, or radioactive samples

Handling and use of pathogenic, toxic, or radioactive samples and of genetically modified organisms holds risks for health and environment.

- Ensure that all necessary safety regulations, guidelines, precautions and practices are adhered to accordingly.
 - Consult the laboratory safety officer for advise on the level of containment required for the application, and proper decontamination or sterilization procedures to follow if fluids escape from containers.
-

To operate the instrument safely:

- Observe all cautionary information printed on the original solution containers prior to their use.
- Because leaks, spills, or loss of sample may generate aerosols, observe proper safety precautions.
- Agilent 2100 Bioanalyzer covers have not been designed as bioseals for aerosol or liquid containment.
- Handle body fluids with care because they can transmit disease. No known test offers complete assurance that they are free of micro-organisms. Some of the most virulent – Hepatitis (B and C) and HIV (I-V) viruses, atypical mycobacteria, and certain systemic fungi – further emphasize the need for aerosol protection.

1 Safety Information

Chemical and Biological Safety

- Always follow local state and federal biohazard handling regulation when disposing of biohazardous waste material e.g. used Cell LabChips or contaminated pressure adapters.
- Handle all infectious samples according to good laboratory procedures and methods to prevent spread of disease.
- Dispose of all waste solutions and products according to appropriate environmental health and safety guidelines.

WARNING

Harmful chemical and biological substances

Residues of clinical samples may contain chemicals and biological substances that are dangerous and harmful to persons working on the 2100 Bioanalyzer.

- The Agilent 2100 Bioanalyzer and any accessories must be decontaminated before requesting service by an Agilent Technologies Field Service Representative and before returning the 2100 Bioanalyzer to Agilent Technologies for repair or replacement.
-

Legal Notice

The Agilent 2100 Bioanalyzer is sold for research use only.

By purchasing this instrument, the purchaser is granted the limited right to use only this instrument. Purchase of this instrument does not include any right, express or implied, to use any other patented product, method or process, or to use any other portion or component of any patented system or systems, software, microfluidic devices or reagents, either alone or in conjunction with this product, unless use of such method, process or other portion or component is separately authorized.

1 Safety Information
Legal Notice



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Two versions of the 2100 Bioanalyzer are available (see the label at the lower right corner at the front of your 2100 Bioanalyzer). Both have the same specifications and requirements except for the option to do flow cytometry. For both versions a suitable environment is important to ensure optimal performance.

G2938C: for electrophoretic assays and for flow cytometry

G2939A: for electrophoretic assays only



Power Considerations

The Agilent 2100 Bioanalyzer power supply has wide ranging capabilities and accepts any line voltage in the range 100 - 240 V \pm 10% with a line frequency of 50 - 60 Hz \pm 5% (see also [Table 1](#) on page 20 for more details). Consequently, there is no voltage selector in the rear of the instrument.

CAUTION

Damage through high line voltage

Connecting the Agilent 2100 Bioanalyzer to a line voltage higher than specified may result in damage of the instrument.

→ Connect the Agilent 2100 Bioanalyzer to the specified line voltage only.

Bench space

The Agilent 2100 Bioanalyzer dimensions and weight (see [Table 1](#) on page 20) allow you to place it on almost any desk or laboratory bench. It needs approximately 8 cm (3.1 inches) of clear space at the rear for air circulation and electric connections.

Environment

Your Agilent 2100 Bioanalyzer will work within the specifications of ambient temperatures and relative humidity described in [Table 1](#) on page 20.

CAUTION

Condensation

Condensation will damage the electronics.

- Do not store, ship or use the instrument under conditions where temperature fluctuations could cause condensation within the instrument.
- If your instrument was shipped in cold weather, leave it in its box and allow it to warm up slowly to room temperature to avoid condensation.

NOTE

The Agilent 2100 Bioanalyzer is designed to operate in a controlled electromagnetic environment (EN61326/A1) where RF transmitters such as mobile telephones should not be used in close proximity.

NOTE

In order to function properly, do not place the Agilent 2100 Bioanalyzer on a vibrating surface or near vibrating objects.

Sound Emission

Manufacturers Declaration

This statement is provided to comply with the requirements of the German Sound Emission Directive of 18 January 1991.

This product has a sound pressure emission (at the operator position) < 70 dB.

- Sound Pressure $L_p < 70$ dB (A)
- At Operator Position
- Normal Operation
- According to ISO 7779:1988/EN 27779/1991 (Type Test)

Physical Specifications of the Agilent 2100 Bioanalyzer

Table 1 on page 20 lists the physical specifications of the Agilent 2100 Bioanalyzer.

Table 1 Physical specifications

Type	Specification	Comment
Weight	10 kg (22 lbs)	
Dimensions	162 — 412 — 290 mm (6.4 — 16.2 — 11.4 in)	Width — depth — height
Line voltage	100-240 VAC \pm 10%	Wide-ranging capability
Line frequency	50-60 Hz \pm 5%	
Power consumption	30 W / 60 VA	Maximum
Ambient operating temperature	5-40 °C (41-104 °F)	The assays set-up to be analyzed on a chip temperature of 30 °C. If the ambient temperature is above 30 °C the assays are analyzed using that temperature.
Ambient non-operating temperature	-40-70 °C (-40-158 °F)	
Humidity	<80%, at 5-31 °C (41-89 °F), decreasing linearly to 50% at 40 °C (104 °F)	Non-condensing
Operating altitude	Up to 2000 m (6500 ft)	
Non-operating altitude	Up to 4600 m (14950 ft)	For storage of the Agilent 2100 Bioanalyzer
Safety standards: IEC, CSA, UL	Installation Category II, Pollution Degree 2	



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Damaged Packaging

Upon receipt of your Agilent 2100 Bioanalyzer, computer and printer, inspect the shipping containers for any signs of damage. If containers or cushioning material are damaged, save them until the contents have been checked for completeness and the 2100 Bioanalyzer, computer and printer have been mechanically and electrically checked. If the shipping container or cushion material is damaged, notify the carrier as well as Agilent Technologies. Save the shipping material for the carrier's inspection.

CAUTION

If there are signs of damage to the Agilent 2100 Bioanalyzer:

- Do not attempt to install the instrument.
- Contact your local Agilent Technologies sales and service office.

Delivery Checklist

Ensure that all parts and materials have been delivered with your 2100 Bioanalyzer.

The delivery checklists valid for G2938C are shown in [Table 2](#) on page 22 to [Table 4](#) on page 23. The checklist for G2939A is shown in [Table 5](#) on page 24. Please report any missing or damaged parts to your local Agilent Technologies sales and service office.

Table 2 Agilent 2100 Bioanalyzer (G2938C) delivery checklist

Description	Quantity
2100 Bioanalyzer instrument	1
Declaration of conformity	1
Instrument control license	1
Installation and Safety Manual	1
RS232 Connector cable	1

Table 2 Agilent 2100 Bioanalyzer (G2938C) delivery checklist

Description	Quantity
USB/serial adapter	1
Fuses	2
Chip priming station	1
IKA vortex mixer (optional)	1
Agilent 2100 Bioanalyzer expert software including declaration of system validation.	1

2 different application sets are available for the 2100 Bioanalyzer G2938C. The 2100 Bioanalyzer electrophoresis set contains an electrode cartridge required for all electrophoretic assays.

Table 3 Agilent 2100 Bioanalyzer electrophoresis set (G2947CA) delivery checklist

Description	Quantity
Electrode cartridge	1
Test chip bundle	1
Agilent 2100 Bioanalyzer software electrophoresis license	1

The flow cytometry set contains a pressure cartridge mandatory for all flow cytometry assays.

Table 4 Agilent 2100 Bioanalyzer flow cytometry set (G2948CA) delivery checklist

Description	Quantity
Pressure cartridge	1
Pressure adapter kit	1
Cell test chip kit	1
Agilent 2100 Bioanalyzer software flow cytometry license	1
Checkout kit	1

3 Unpacking the Agilent 2100 Bioanalyzer System

Damaged Packaging

Table 5 Agilent 2100 Bioanalyzer (G2939A) delivery checklist

Description	Quantity
Agilent 2100 Bioanalyzer instrument	1
Electrode cartridge	1
Test chip bundle	1
Declaration of conformity	1
Installation and Safety Manual	1
RS232 Connector cable	1
USB/serial adapter cable	1
Fuses	2
Chip priming station	1
IKA vortex mixer	1
Agilent 2100 Bioanalyzer expert software, including declaration of system validation.	1
Instrument control license and electrophoresis license	1



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Installing the Agilent 2100 Bioanalyzer System

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After unpacking and checking the completeness of the shipment, the Agilent 2100 Bioanalyzer system is ready to be installed. Depending on system configuration, the installation requires up to three steps:

- 1 Setting up the PC.
- 2 Setting up the printer.
- 3 Setting up the Agilent 2100 Bioanalyzer.

NOTE

If you have problems installing your Agilent 2100 Bioanalyzer, refer to the Troubleshooting section of the *Maintenance and Troubleshooting Guide*.



4 Installing the Agilent 2100 Bioanalyzer System

Setting up PC and Printer

Setting up PC and Printer

For setting up the PC and printer, please refer to the instructions supplied with the PC and printer respectively.

Setting up the Agilent 2100 Bioanalyzer

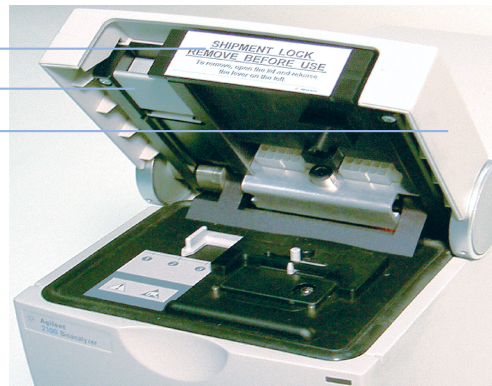
To set-up the Agilent 2100 Bioanalyzer instrument:

- 1 Locate bench space that meets the requirements described in “[Bench space](#)” on page 17.
- 2 Place the instrument on the bench in an upright position.
- 3 Open the lid of the bioanalyzer and pull the metal lever on the inside left of the lid to the vertical position. Remove the shipment lock and store it for future use.

Shipment lock

Metal lever

Lid



CAUTION

Damage by electrostatic discharge

The heater plate and electrodes are sensitive to electrostatic discharge.

- Make sure that you are grounded before inserting a chip to prevent the Agilent 2100 Bioanalyzer from being damaged by electrostatic discharge. The lid is grounded to leak off electrostatic energy of the operator.

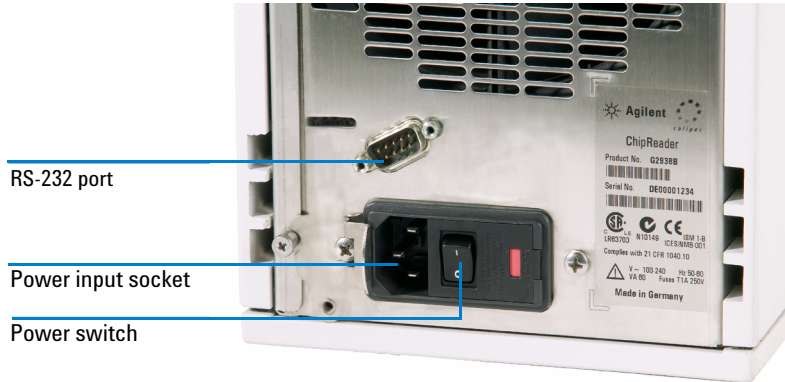
4 Installing the Agilent 2100 Bioanalyzer System

Setting up the Agilent 2100 Bioanalyzer

- 4 Slide the electrode or pressure cartridge into the lid and move the lever into a flat (closed) position. Adjust the chip selector accordingly (electrode cartridge: position1; pressure cartridge: position2).



- 5 Connect one end of the serial cable to the RS-232 port located at the rear of the instrument.



- 6 Connect the other end of the serial cable to the serial port (COM-port) of your PC.



4 Installing the Agilent 2100 Bioanalyzer System

Setting up the Agilent 2100 Bioanalyzer

- 7 If your PC is not equipped with a serial port, use the USB/serial adapter cable that is provided with the instrument.
- 8 Ensure that the power switch located at the rear of the instrument is in off position.

NOTE

The power input socket accepts a line voltage of 100-240 VAC \pm 10% with a line frequency of 50-60 Hz. Maximum power consumption is 60 VA. There is no voltage selector at the rear of the Agilent 2100 Bioanalyzer because the power supply has a wide-ranging capability.

- 9 Plug the female end of the power cord into the power input socket of the Agilent 2100 Bioanalyzer instrument. Plug the male end of the power cord into the electrical outlet.



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Starting the Agilent 2100 Bioanalyzer

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- Preparing the Assay 35

When starting the Agilent 2100 Bioanalyzer software, wait a few seconds until the self-test procedures for the Agilent 2100 Bioanalyzer are finished. Otherwise the software may not recognize the Agilent 2100 Bioanalyzer.

CAUTION

Condensation within the instrument

Temperature fluctuations could cause condensation within the instrument.

- Do not use the Agilent 2100 Analyzer under conditions with temperature fluctuations.
- Let the instrument equilibrate to room temperature for one day to avoid damage of the electronics.



Turning on the Agilent 2100 Bioanalyzer

- 1 Turn on your Agilent 2100 Bioanalyzer. The power switch is located at the rear of the instrument, where the power cable plugs in (see).
- 2 The status indicator lamp will light green if power is present and all instrument self-tests have passed successfully.

Status Indicator
* Green - Ready
* Green, flashing - Busy
* Orange - Self-test
* Red - Error



If the status indicator lamp lights red, this indicates a hardware error. In this case, please refer to the Troubleshooting section of the *Agilent 2100 Bioanalyzer Maintenance and Troubleshooting Guide* or the *Online Help*.

- 3 Once your Agilent 2100 Bioanalyzer has passed the self- tests, it is ready to run samples.
- 4 Start your PC and printer by pushing the appropriate power buttons as outlined in the documentation.

Connecting the Bioanalyzer via the USB/Serial Cable

If you connect the 2100 Bioanalyzer instrument via the USB/serial adapter cable, the driver needs to be installed on the PC. This is preinstalled on bundle PCs but needs to be installed manually on 3rd party PCs.

The driver can be found on the 2100 Expert Software CD. For installation instructions please refer to the `readme` file of the 2100 Expert Software.

Starting the Agilent 2100 Bioanalyzer Software

The Agilent 2100 Bioanalyzer software is pre-installed on bundle PCs. However, the full functionality of the software becomes available only if you add the required license key(s). License keys are supplied with the 2100 Bioanalyzer electrophoresis set and/or with the flow cytometry set (see [Table 3](#) on page 23 and [Table 4](#) on page 23).

- 1 Open the Agilent 2100 Bioanalyzer expert software by double-clicking the icon on the desktop.
- 2 Select **Help > Registration** and highlight the **Add License** tab.
- 3 Add the appropriate license key.

NOTE

For more details of adding license keys, refer to the *Online Help* .

- 4 To establish instrument-PC communication, assign a COM-port in the instrument context. When the communication is established, instrument specific information like serial number, vendor information and firmware version is displayed.

NOTE

For detailed information and in case of problems, please refer to the Troubleshooting section of the *Agilent 2100 Bioanalyzer Maintenance and Troubleshooting Guide* or the *Online Help*.

Preparing the Assay

For information about the assay preparation, please refer to the corresponding reagent kit guide. All kit guides are included in the online help of the 2100 Expert software. The quick start guide is provided with every kit. Use the reagent kit guides as a reference when preparing and running an assay with the Agilent 2100 Bioanalyzer.

The Agilent Technologies Genomics Web site offers support and useful information about current developments, products and technology:

<http://www.agilent.com/genomics/bioanalyzer>

5 Starting the Agilent 2100 Bioanalyzer

Preparing the Assay



6 Maintenance of the Agilent 2100 Bioanalyzer

For detailed maintenance procedures of the Agilent 2100 Bioanalyzer instrument and its accessories please refer to:

- the *Online Help* of the Agilent 2100 Bioanalyzer software or
- the Maintenance part of the *Troubleshooting and Maintenance Guide*



6 Maintenance of the Agilent 2100 Bioanalyzer

Preparing the Assay



7 Spare Parts and Accessories

The following table provides a list of spare parts and accessories that are available for the Agilent 2100 Bioanalyzer. To buy parts, please refer to the Agilent Online Store: <http://www.agilent.com/home/buyonline.html>

Table 6 Spare Parts and Accessories for the Agilent 2100 Bioanalyzer

<i>Reorder number</i>	<i>Part</i>	<i>Description</i>
RS232-61601	RS 232 Cable	communication cable between PC and instrument
8121-1013	USB/Serial Adapter Cable	connects RS232 cables to USB PC ports (for PCs without serial port)
2110-0007	Fuse	fuse for power supply
G2938-68716	Gasket Kit	contains spare parts for chip priming station: 1 plastic adapter, 1 ring and 10 gaskets
5042-1398	Adjustable Clip	used in combination with a syringe to apply defined pressure for chip priming
5065-4478	Pressure Adapter Kit	contains 5 pressure adapters for use with the pressure cartridge (for G2938C only)
5065-9966	Vortex Mixer Adapter	replacement part for IKA MS2 Vortexer (3 mounting screws)
5065-4413	Electrode Cartridge	no extra electrode pin set; pin-set not separately re-orderable
5065-4401	Chip Priming Station	includes priming station, timer and 1 syringe clip
G2938-68300	Test Chip Kit for Electrophoresis Assays	comprises autofocus chip, electrode/diode test chip and documentation
G2938-68200	Test Chip Kit for Flow Cytometry Assays	comprises 1 Cell Autofocus Chip and documentation (for G2938C only)
5065-4428	IKA Vortexer MS3 type	Bundled to all Bioanalyzer systems but NOT available from Agilent standalone. Replacement vortexers must be ordered directly from IKA. Description: "MS 3 basic S36 Agilent" IKA Part Number: "3617036"



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