

Agilent 2100 Bioanalyzer – Site Preparation Checklist G2939BA

Thank you for purchasing an Agilent 2100 Bioanalyzer G2939BA system. To get you started and to assure a successful and timely upfront installation of your Agilent instrument, please refer to this specification or set of requirements.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an **information guide and checklist** prepared for you that outlines the supplies, consumables, space and utility requirements for your equipment at your site.

Customer Responsibilities

Make sure your site meets the following specifications before the installation date. For details, see specific sections within this checklist, including:

- The necessary laboratory or bench space is available.
- The environmental conditions for the lab are met.
- The power requirements related to the product (e.g. number & location of electrical outlets).
- The required operating supplies necessary for the product and installation.
- The computing environment and the necessary space is made available.
- The number & location of electrical outlets for your computer systems and peripherals are planned.
- That your site meets the software, hardware and networking specifications below.
- Locate your sales order information, and licenses.
- The necessary software media are available.
- That a suitable backup solution is identified for your software.
- Please make sure you have at least one 2100 Bioanalyzer assay kit available for the Familiarization Service.
- Please transport the delivered boxes to the room where the instrument should be installed upfront of your Installation Service.
- Please consult the "Other Requirements" section below for other product-specific information.
- For the Installation and Familiarization Services, users of the instrument should be present throughout this service; otherwise, they will miss important operational, maintenance and safety information.

For the 2100 Bioanalyzer system G2939BA, installation of non-Agilent PC and software is not part of the "Installation Service".

Agilent is not responsible for installation of non-bundled PC and in this case the installation is a self-service. There is an optional software installation service available. For more details please contact your local Agilent sales representative. Note that the Security Pack G2949CA software add-on is not supported with third party PCs.

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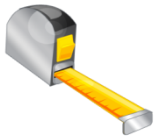
The customer's responsibilities in case of non-bundled PCs comprises:

- Unpacking and setting up the PC.
- Install the 2100 Expert software B.02.10 or higher.
- Installation of the USB/Serial driver if instrument is connected to the PC via USB port.

Please refer to the installation advisory that is send to you along with the system for further details on the installation of the PC and software.

Important Customer Information

1. If you have questions or problems in providing anything described as a Customer Responsibility above, please contact your local Agilent and/or partner support/service organization for assistance prior to delivery. In addition, Agilent or its partners reserve the right to re-schedule the installation dependent upon the readiness of your laboratory.
2. Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
3. Other optional services such as additional training, operational qualification (IQ/OQ) and consultation for user-specific applications may also be provided at the time of installation when ordered with the system, but should be contracted separately.



Dimensions and Weight

Identify the laboratory bench space before your system arrives based on the table below.

Pay special attention to the **total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves**. Also pay special attention to the total weight of the modules you have ordered to ensure your laboratory bench can support this weight.

Instrument Description	Weight		Height		Depth		Width	
	kg	lbs	cm	in	cm	in	cm	in
2100 Bioanalyzer instrument	10	22	29	11.4	41.2	16.2	16.2	6.4

- Additional bench space is required for laptop and IKA vortexer.**

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Environmental Conditions

Operating your instrument within the recommended temperature ranges insures optimum instrument performance and lifetime.

Special Notes

1. Performance can be affected by sources of heat & cold e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
2. The site's ambient temperature conditions must be stable for optimum performance.
3. The instrument requires a space of at least 2.5 cm (1 in) on both sides and 8 cm (3.1 in) at the back for the circulation of air and room for electrical connections.
4. The short circuit test checks for instrument leak currents. The limits of this test specify an ambient temperature of 25°C and relative humidity less than or equal to 50%. Higher temperatures or relative humidity could result in a failed short circuit test.

Instrument Description	Operating temp range °C (°F)	Operating humidity range (%)	Heat Dissipation (BTU)
2100 Bioanalyzer instrument	15-27°C (59-80°F)	< 70%, non-condensing at 15-27°C (59 - 80°F)	N/A



Power Consumption

Special Notes

1. Account for an electrical outlet for the instrument and the PC. Also be aware that the supplied IKA vortexer requires an additional outlet.
2. The 2100 Bioanalyzer instrument has an automatic line sensing, wide-ranging power supply.

Instrument Description	Line Voltage & Frequency (V, Hz)	Maximum Power Consumption (VA)	Maximum Power Consumption (W)
2100 Bioanalyzer instrument	100 - 240 V ±10% 50 - 60 Hz +/- 5%	60	30

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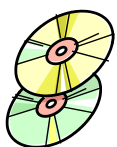


Required Operating Supplies by Customer

Special Notes

For information on Agilent consumables, accessories and laboratory operating supplies, please visit <http://www.agilent.com/genomics/Bioanalyzer>

Item Description (including dimensions, etc.)	Vendor's Part Number (if applicable)	Recommended Quantity
Pipettes and appropriate tips (1000 µL, 100 µL, 10 µL)	N/A	1 set with tips
Micro centrifuge capable of delivering 2500 x g (13000 x g for RNA assays)	N/A	1
Adjustable heating block for 0.5 mL Eppendorf vials, capable of delivering 100°C or water bath	N/A	1
Powder-free gloves	N/A	1 box
De-ionized water	N/A	10 mL
Eppendorf vials (1.5 and 0.5 mL)	N/A	depends on experiment setup
Beta-mercaptoethanol (β-ME) or dithiothreitol (DTT) for Protein assays only	N/A	depends on experiment setup
RNase decontamination solution (e.g. RNase Zap™) for RNA assays only	N/A	1 bottle
2100 Bioanalyzer reagents and chips used for the Familiarization Service (not included in the G2939BA purchase)	Assay dependent	1 kit



Software Specifications for Workstations, Clients, and Servers

Special Notes

1. 2100 Expert software version B.02.10 or higher is mandatory for this product.
2. Applicable specifications for non-bundled PC's (Note: the Security Pack addon G2949CA is not supported with a third party PC. It must be combined with the Agilent bundle laptop G2953CA):

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Specification Description	Minimum	Recommended (if applicable)	Comments (if applicable)
Operating system type(s), versions	Windows 10	64-bit version	n/a
O/S .NET & other add-ons	Microsoft.NET Framework 3.5	n/a	Mandatory
Language settings/compatibility	English (US)	English (US)	Other languages can be added to the OS.
Regional settings/compatibility	English (US)	English (US)	Mandatory
Specific drivers	n/a	FTDI USB chipset drivers CDM21228	Only if USB/serial adapter cable (5188-8031) is being used.
Printers	Default printer driver installed and set.	n/a	This can be a virtual printer like PDF or XPS
MSXML Version 4	MSXML 4	n/a	MSXML 4 is mandatory for version B.02.10 or lower.


Computer Hardware Specifications for Workstations, Clients, and Servers
Special Notes

1. Applicable specifications for third party PC's (the Security Pack addon G2949CA is not supported with a third party PC. It must be combined with the Agilent bundle laptop G2953CA).
2. High resolution display settings can cause artifacts when operating the 2100 Expert software.
3. Windows display zoom can cause artifacts and should be set to 100 %.

Specification Description	Minimum	Recommended (if applicable)	Comments (if applicable)
Processor type & speed	Intel® i5-6300U	N/A	N/A
Memory	8 GB	N/A	Related to Windows 10 requirements.
Internal Storage/devices/media	20 GB	>100 GB	N/A
Printing devices	not required	N/A	Only a default printer must be set in the OS.
Communication interface	1-2x Serial RS-232 ports or 1x USB port		
Display devices	1280 x 1024 pixels	Screen resolution must not exceed 1920x1024 pixels	Scaling above 100% can cause artifacts.

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Networking Specifications

Special Notes

- Agilent recommends to operate the system only within a closed and secured network.
- Known issues with the accompanying software are published online:
<https://www.agilent.com/cs/library/support/Patches/SSBs/G2946CA-G2949CA.html>



Other Requirements

Important Customer Web Links

- For additional information about our solutions, please visit our web site at
<http://www.agilent.com/genomics/Bioanalyzer>
- Need to get information on your product? Visit our Literature Library at
<http://www.agilent.com/en-us/library/>
- Download our "Support Tool Box" to learn more about operating your 2100 Bioanalyzer from
www.agilent.com/genomics/bioanalyzer-toolbox
- Subscribe to the 2100 Bioanalyzer eBulletin Newsletter to stay informed
<https://www.agilent.com/en/promotions/e-bulletin-subscription>
- If you require general support for your Microsoft operating system
<http://support.microsoft.com/>