

Agilent Oligo Pro II System – Site Preparation Checklist

Thank you for purchasing an Agilent **instrument**. To get you started and to assure a successful and timely installation, 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.

List of applicable systems for this checklist.

Description	System Product Number	Instrument Model Number
Oligo Pro II	M5340AA	OS-V1CE

Customer Responsibilities

Ensure that 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 site as well as laboratory gases, plumbing and extraction.
- The power requirements related to the product (e.g. number and location of electrical outlets).
- The required operating supplies necessary for the product and installation.
- If Agilent is delivering Installation and Familiarization services, users of the instrument should be present throughout these services. Otherwise, they will miss important operational, maintenance, and safety information.
- Please consult the Special Requirements section for other product-specific information.
- A minimum amount of operating supplies must be ordered from Agilent separately and available during the system installation.**

Customer Information

1. If you have questions or problems in providing anything described as a Customer Responsibility, please contact your local Agilent or partner support service organization for assistance before the scheduled installation. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your site.
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 extra training, compliance services and consultation for user-specific applications may also be provided at the time of installation. Please discuss with your Agilent Sales representative before the installation is scheduled.

Important Customer Web Links

- **Need technical support, FAQs, supplies? – visit our webpage:**
<https://www.agilent.com/en/contact-us/page>



Dimensions and Weight

Identify the laboratory bench space before your instrument arrives based on the following table.

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.**

Special notes

- The total bench space required for a configuration of the system including the computer is 40" W x 24" D x 34" H.

Instrument description	Weight		Height		Depth		Width	
	kg	lbs	cm	in	cm	in	cm	in
Oligo Pro II	40	88	86.4	34	61	24	101.6	40



Environmental Conditions

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

Special notes

- For indoor use in a normal laboratory environment.
- Performance can be affected by sources of heat and cold, e.g., direct sunlight, heating/cooling from air conditioning outlets, drafts, and/or vibrations.
- The laboratory's ambient temperature conditions must be stable for optimum performance.
- For proper ventilation, at least 2-4" of space should be provided on the other sides of the instrument.

Instrument description	Operating temperature range °C (F)	Operating humidity range (%)
Oligo Pro II	20 – 23° C	< 80% (non-condensing)



Power Consumption

Special notes

- If a computer system is supplied with your instrument, be sure to account for those electrical outlets.
- The circuit should be clear of erratic loads or power spikes. **The use of a surge protection device is highly recommended.**
- A minimum of three (3) standard electrical wall outlets should be available to connect the instrument, computer and accessories. A power strip may be used in place of separate wall outlets if needed.
- It is recommended to place the system and supplied computer on a double conversion Uninterrupted Power Supply (UPS). Agilent recommends "TrippLite" model SU1500XL.

Instrument description	Line voltage and frequency (V, Hz)	Maximum power consumption (VA)	Maximum power consumption (W)
Oligo Pro II	100-200 VAC; 50 - 60 Hz (200-230 VAC; 50 - 60 Hz Available)	~110 VA	90



Required Operating Supplies by Customer for Installation

Operating Supplies

- A minimum quantity of one item per line must be ordered from Agilent prior to system installation.
- An up-to-date list of all available reagents can be found at <https://www.agilent.com/en/contact-us/page>.

Item description (including dimensions etc.)	Vendor's part number (if applicable)	Recommended quantity
OLIGEL Gel Matrix	#DN-415-0250	Min. 1
Capillary Conditioning Solution	#DN-475-1000	Min. 1
OLIGEL Inlet Buffer	#DN-465-1000	Min. 1
OLIGO PRO verification standard solution 10X	#DN-400-0001	Min. 1

Compatible Sample 96-Well Microplates

- A list of approved full skirted PCR plates is provided below. Contact Agilent regarding the compatibility of any plate **NOT** listed below.
- NOTE: Non-skirted or half-skirted PCR plates are **NOT** supported for use with this system.

Item description (including dimensions etc.)	Vendor's part number (if applicable)
Axygen® 96 well full skirt PCR microplate	Axygen # PCR-96-FS-C
Hard-Shell® 96-Well PCR Plate	BioRad # HSP-9601
Eppendorf* 96-Well twin.tec* PCR Plates, Full-skirted	Eppendorf # 951020401 (various colors)

Compatible Buffer and Waste 96-Well Microplates

- The system uses a standard deep 96-well plate supplied by Fisher Scientific (Part # AB0564) for the buffer plate. This specific plate **MUST** be used with the instrument (two plates are supplied with the instrument).
- The waste trays used on the system are Nalgene™ Polypropylene Robotic Reservoirs supplied by Fisher Scientific (Part # 1200-1301). Two plates are supplied upon installation.

Item description (including dimensions etc.)	Vendor's part number (if applicable)
Abgene Storage Plate, 1.2mL, Buffer Deep 96-Well Plates	Fisher # AB0564
Nalgene™ Polypropylene Robotic Reservoirs, 300mL, Waste Reservoir	Fisher # 1200-1301

Reagents

- The following reagents should be available in the client laboratory upon system installation.

Item description (including dimensions etc.)	Vendor's part number (if applicable)	Recommended quantity
Deionized, sub-micron filtered water: For dilution of Inlet Run Buffer and Capillary Conditioning Solution concentrates and flushing capillary array.	Any qualified vendor	1 L

Liquid Handling (Optional)

- Similar tools/consumables should be available in the client laboratory upon system installation. Specific vendors are not required.

Item description (including dimensions etc.)	Vendor's part number (if applicable)
Multichannel pipettor capable of dispensing 1.0 mL into buffer deep well plates; multichannel pipettor capable of dispensing 1-100 µL into sample or marker PCR	Any qualified vendor
Disposable Transfer Pipets, Graduated, Samco® Scientific	VWR # 14670-200
4.8 mL B/B-PET* Transfer Pipets (Blood Bank), Non-sterile, graduated to 2.0 mL	Fisher Scientific # 13-711-42
VWR® Disposable Pipetting Reservoirs 50 mL, Polystyrene, White, Sterile	VWR # 89094-680
VWR® Disposable Pipetting Reservoirs, 25 mL, Polystyrene, White, Sterile	VWR # 89094-662
RNase/DNase free tips	Any qualified vendor



Special Requirements

Lifting and moving equipment

The instrument will be delivered with its accessories in one pallet type box. Agilent personnel will unpack the box in your presence and might request assistance to lift heavy instrumentation. Please make sure you have necessary resources to assist in lifting. In addition, please move the pallet type box close to its destination before installation. If you do not have the required resources available, please contact us as soon as possible and we assist in finding a suitable contractor to move the equipment on your behalf.

Correct Reagent and Kit Storage

The reagents used to operate the system require various storage conditions including refrigeration (4°C), freezing (-20°C), and room temperature. The specific storage conditions are listed on the respective item label. Adequate facilities for storing consumables should be available for use in the client laboratory to maintain shelf life and performance of all reagents. The freezer used should NOT be a frost-free model, to avoid repetitive temperature cycling.

Additional recommendations for 96-well plate preparation

The following items are used to assist in preparation of marker, ladder and/or sample PCR plates. Mineral oil can be used to cover marker wells to prevent evaporation and enable many injection cycles; sealing film is useful for protecting plates from ambient particulates between use. Note that a small amount of mineral oil and several plate seals are provided on installation; the following table lists some sources for reordering these items. A benchtop vortexer is recommended for thorough mixing of samples following addition of sample to the Diluent Marker solution. A plate centrifuge is very useful for spinning plates following sample/marker/ladder plate preparation, to effectively eliminate bubbles, which can cause injection failures.

Item description (including dimensions etc.)	Vendor's part number (if applicable)
Mineral oil, light	Sigma-Aldrich # 330779
96-Well PCR Tray Sealing Film VWR® Heat Resistant Films for PCR, Polypropylene	VWR # 60941-070 or comparable
96-Well Plate Vortexer	Any qualified vendor; e.g. Scientific Industries # SI-0400A
96-Well Plate Centrifuge Mini PCR Plate Spinner, Hold 2 Plates, Speed: 2500rpm (500 x g)	Any qualified vendor; e.g. Phenix Research. Products # C-1000