



SAGE SCIENCE INC

MegaPulse IQ/OQ

460102 Rev. A

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Sheet **1** of **10**

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SUMMARY

This document provides instructions and records for Installation Qualification (IQ) and Operational Qualification (OQ) for the MegaPulse instrument.

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1.0 Introduction

1.1 Purpose

The purpose of this IQ/OQ procedure is to verify and document that the MegaPulse instrument is installed correctly and operates as intended prior to use by the end user or Sage Science Staff.

1.2 Scope

This document provides a checklist of items and procedures to qualify the correct function of the MegaPulse instrument (Part No. MGP0200) upon installation, and ongoing operation.

1.3 Reference Documents

UOC-460092, MegaPulse Operations Manual, at the latest revision.

1.4 Responsibilities

The Sage Science Applications Lab Director or designee will be responsible to ensure that this procedure is implemented.

2.0 Installation Qualification (IQ)

2.1 Instrument Origin and Identification

Instrument:	MegaPulse Electrophoresis Power Supply
Instrument Description:	Field-Inversion and Zero-Integrated-Field Electrophoresis Power Supply
Manufacturer:	Sage Science, Inc. 500 Cumming Center Suite 2400 Beverly, MA 01915 978.922.1832 www.sagescience.com
Service Contact:	Tel: 888.744.0144 Email: support@sagescience.com
Part Number:	MGP0200
Serial Number:	See rear back panel label
Date Received:	
Installation Location:	
Purchase Order Number:	
ID or Asset Number:	

2.2 Instrument Delivery and Documentation

Verify that the following items have been received (refer to Operations Manual, UOC-460092, Section 3.0).

MegaPulse Power Supply (MGP0200)	
MegaPulse Unit	
External Power Supply	
USB-C Cable	
USB Storage Device (MegaPulse software)	
User Manual (UOC-460092)	
Sage Pulse Midi Gel Box Assembly (PGB1000) — if ordered	
Gel Box	
Gel Tray	
Gel Box Cover with Banana Plug Wires	
12-Well Casting Comb	
20-Well Casting Comb	
Sage Supplied Mini PC — if ordered	
Mini PC Tablet with Touchscreen (software pre-loaded)	
Foldable 360° Rotating Tablet Stand	
Power Supply for Mini PC	

Is there any damage to the instrument or accessories?	Yes ☐ No ☐
Comments:	
Has the manufacturer been informed of damage or missing items?	Yes ☐ No ☐
If yes, corrective action taken:	

2.3 Environment and Siting

Refer to Operations Manual, UOC-460092, Section 1.2

Manufacturer's Recommended Environmental Conditions	
Ambient Temperature: 17–23°C Humidity: 10–80%, non-condensing Indoor use only; Altitude up to 2000 m Pollution Degree 2; Installation Category 2 Power: 100–240 VAC, 2A, 50–60 Hz (via external power supply)	
Is the ambient temperature within the required range (17–23°C)?	Yes ☐ No ☐
Is adequate bench space available for the instrument (approx. 25 W x 25 D cm)?	Yes ☐ No ☐
Is a properly grounded AC outlet accessible?	Yes ☐ No ☐
Is there any damage to the instrument or accessories?	Yes ☐ No ☐
Comments:	
Has the manufacturer been informed of damage or missing items?	Yes ☐ No ☐
If yes, corrective action taken:	

2.4 IQ Signature

Installed by: User ☐ Sage Science Representative ☐	
IQ Completed By: _____	Date: _____
Comments: 	

3.0 Operational Qualification (OQ)

3.1 Powering On the Instrument

Refer to Operations Manual, UOC-460092, Section 4.1

Is the external power supply connected to the MegaPulse power entry port (rear panel)?	Yes ☐ No ☐
Is the power cable connected to a properly grounded AC outlet?	Yes ☐ No ☐
Is the USB-C cable connected from the rear panel USB-C port to the PC?	Yes ☐ No ☐
<i>Press the power switch located on the front panel of the MegaPulse.</i> 	
Is the red LED on the front panel illuminated (indicates unit power is on)?	Yes ☐ No ☐
Comments:	

3.2 Software Launch Verification

Refer to Operations Manual, UOC-460092, Sections 4.1 and 5.2

If using Sage-supplied Mini PC: double-click the MegaPulse icon on the desktop to launch the application.

If using a non-Sage PC: insert the USB storage device, navigate to the MegaPulse folder, and double-click the setup executable. After installation, re-boot and launch the application.

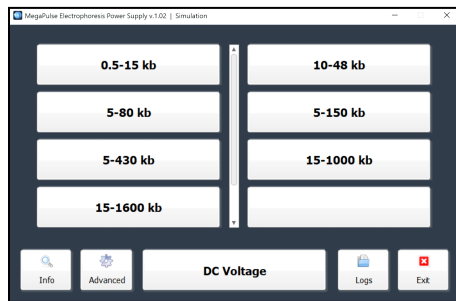


Did the MegaPulse software successfully launch?

Yes ☐ No ☐

Does the Main Screen display the seven pre-set protocol buttons (0.5–15 kb through 15–1600 kb)?

Yes ☐ No ☐

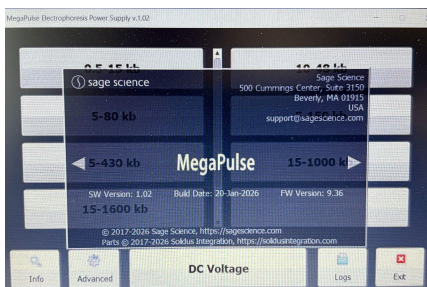


Are the Info, Advanced, DC Voltage, Logs, and Exit buttons visible on the Main Screen?

Yes ☐ No ☐

Press the "Info" button on the Main Screen and record the software version:

Software Version: _____



Click within the Info window to close.

Comments:

3.3 OQ Signature

Assessed by: User ☐ Sage Science Representative ☐	
OQ Completed By: _____	Date: _____
Serial Number: _____	
Have there been any deviations?	Yes ☐ No ☐
Comments: 	
Has the manufacturer been informed of the deviations?	Yes ☐ No ☐
If yes, corrective action taken: 	