

# User Guide for Wes

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ProteinSimple 3001 Orchard Parkway San Jose, CA 95134 Toll-free in the US and Canada: (888) 607-9692 Tel: (408) 510-5500 Fax: (408) 510-5599 email: support@proteinsimple.com web: www.proteinsimple.com User Guide for Wes P/N 031-108 Revision 7, July 2018 For research use only. Not for use in diagnostic procedures

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# Chapter 1: Let's Get Started

## **Chapter Overview**

- Welcome
- Simple Western Assays

## Welcome

Congratulations on bringing Wes into your lab! We welcome you as a new user and are excited to be a part of your work. This user guide will provide you with information on how Simple Western assays work as well as other useful operating and installation information.

To help you get the most from Wes, we've added some attention phrases to guide you through the user guide:

NOTE	Points out useful information.
IMPORTANT	Indicates information necessary for proper operation of Wes.
CAUTION	Cautions you about potentially hazardous situations that could result in injury to you or damage to Wes.
!WARNING!	Warns you that serious physical injury can result if the listed precautions aren't followed.

## Simple Western Assays

A Simple Western size assay is an automated Western - no gels, no transfer devices, no blots, no film and no manual analysis.

Simple Westerns take place in a capillary. Wes automates all steps of the process for you including sample loading, protein separation, immunoprobing or labeling, washing, detection and data analysis. Up to 25 samples can be processed in a single run.

Wes performs Simple Western size-based assays: Immunoassay and Total Protein assay. All you have to do is pipette your samples and immunoreagents into Wes's pre-filled plate, load the capillary cartridge and press start.

# Chapter 2: Getting Your Lab Ready

## **Chapter Overview**

- Introduction
- Space Requirements
- Physical Specifications
- Electrical Requirements
- Environmental Requirements
- Software and Computer Requirements
- General Guidelines and Information

## Introduction

This chapter will help you prepare the lab for Wes. Please have the space, electrical and environmental requirements ready prior to scheduling your installation.

NOTE: Find a buddy to help you unpack Wes. Don't try to lift him alone, you could cause injury to yourself or damage to Wes.

## Space Requirements

You need a lab bench or table that can support 50 lbs (23 kg) and has enough space for both Wes and his computer. There should be sufficient clearance for both heat ventilation and to provide access if Wes needs service.

#### IMPORTANT

Wes needs a stable surface and must remain level to work properly. The lab bench or table can't shift or wobble under heavy weight.

Dimension	Meters	Feet
Width	2.2	7.0
Depth	0.9	3.0
Height	1.0	3.3

Recommended space requirements for Wes.

Description	Specification
Wes's Dimensions (Door Closed)	0.36 m H x 0.36 m W x 0.57 m D (1.71' H x 1.08' W x 1.08' D)
Wes's Dimensions (Door Open)	0.36 m H x 0.53 m W x 0.57 m D (1.71' H x 1.58' W x 1.08' D)
Wes's Weight	23 kg (50 lbs)
Computer Workstation Dimensions	0.41 m H x 0.66 m W x 0.76 m D (1.35' H x 2.17' W x 2.49' D)

For indoor use only. Use up to altitudes of 1524 meters (5000 feet).

Table 2-1: Physical Specifications

## **Electrical Requirements**

Wes requires a dedicated, grounded circuit capable of delivering the appropriate current and voltage for your country. The power requirements for select countries are listed below:

Region	Volts (AC)	Frequency (Hz)	Amps
US and Canada	120	60	4.2
Europe	240	50	2.1
Japan	100	50/60	5.0

Table 2-2: Power requirements.

In addition to the requirements listed above, we recommend the grounded circuits terminate at the receptacles, and receptacles must be located within 10 ft (3 m) of the instrument.

## **Environmental Requirements**

Wes likes a consistent temperature in the lab. He works best when conditions stay within these ranges:

Requirement	Specification
Operating temperature range	18–24 °C (64–75 °F)
Operating humidity range	20–60% relative, non-condensing

Table 2-3: Environmental requirements.

## Software and Computer Requirements

Wes brings his own computer to the lab with Compass for Simple Western software pre-installed. Compass software is used to run assays and analyze resulting data. Just in case you need it, a CD containing Compass for Simple Western also comes in the box. If you don't want to analyze your data at Wes' workstation in the lab, Compass software can also be installed on a separate workstation, such as your desktop computer. Your computer must meet the minimum requirements listed in the table below to run the software and process data.

Component	Minimum Recommended
Operating System	Windows 7
Processor	Core 2 Duo
Memory	2 GB
Free Disk Space	10 GB

Table 2-4: Computer requirements.

## General Guidelines and Information

#### Intended Use

NOTE: Wes is for research use only. Not for use in diagnostic procedures.

#### Lifting and Moving the System: Lift Wes Correctly

#### IMPORTANT

Take all the standard precautions when lifting or moving Wes. Since Wes weighs 23 kg (50 lbs), you should not lift him by yourself. Two people should lift him onto the lab bench.

## Chapter 3: Wes

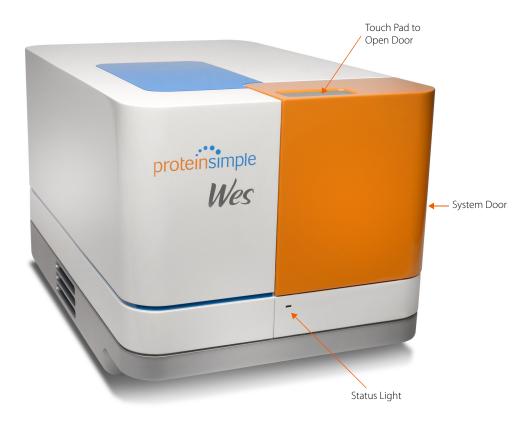
## Chapter Overview

• Instrument Overview

## Instrument Overview

Wes's individual hardware components are described in this section.

#### **External Components**



#### System Door

Wes's door gives you access to the inside of the instrument to load the capillary cartridge and pre-filled plate. To open the door, make sure that you see a steady blue LED on the front of Wes, then touch the small silver touch pad on the top of Wes's door. To close, push the door closed until you hear the latch click.

NOTE: Wes's door must be closed before starting a run.

#### **Status Lights**

The LED on Wes's front panel tells you what he's doing:

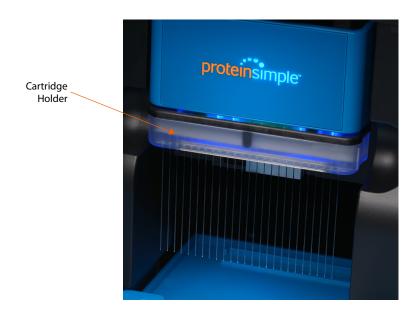
- Start-up (magenta): You've turned on the power and Wes is warming up.
- Ready (steady blue): Wes is powered on and ready for use.
- Opening Door (long blue flash followed by blue pulses): Wes's door is opening.
- Running (pulsing blue): Wes is running an assay.
- Trying to Open Door While Running (red flash): Wes can't open the door when he's running.
- Error (steady red): Wes has detected an error. To get more information, check the Status window of the Run Summary Screen in Compass for Simple Western.



#### Internal Components

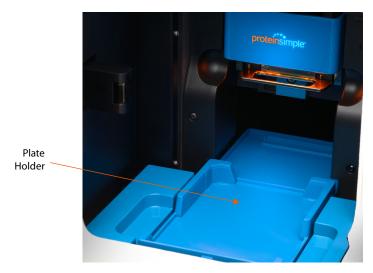
#### Cartridge Holder

The cartridge holder will hold either the 25-Capillary Cartridge (PS-CC01) or the 13-Capillary Cartridge (PS-CC02).

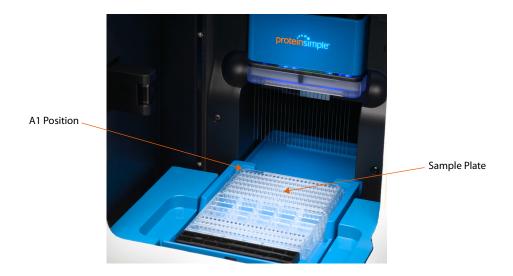


#### **Plate Holder**

The plate holder holds the pre-filled plate which contains samples and assay reagents.



Sample plates should be inserted into the plate holder so that the A1 well position is aligned with the upper left corner of the tray.



#### NOTES:

Remove the lid and seal from the plate before inserting into Wes.

When inserting the sample plate, make sure the plate is firmly seated and level in the tray. Plates that aren't level can interfere with the movement of the plate holder.

#### **Rear Panel**

Located on Wes's rear panel is his power entry, power switch and network connector.



System Power - The main system power components consist of the power switch and power input.

#### !WARNING!

Only use the power supply cord provided with Wes. If the cord is damaged, please contact Protein-Simple Technical Support toll-free in the US and Canada at 1-888-607-9692 (option 3).

#### !WARNING!

You can't replace any parts except the power entry fuse.

#### **!WARNING! SHOCK HAZARD**

Disconnect the power cord from Wes's power input to disconnect power to the instrument.

• Connect to PC - A 10/100/BASE-T Ethernet (RJ-45 connector) is used to connect Wes to a computer.

NOTE: Serial numbers are used to identify individual instruments on the network.

#### System Label

A system label is also located on Wes's rear panel. It includes the ProteinSimple location, system model, power requirements, serial number and certification markings.



# Chapter 4: Operating Wes

## **Chapter Overview**

- Before You Throw the Switch
- Power Up
- Step 1 Get Ready
- Step 2 Start the Run
- Step 3 Post-Run Procedures
- Stopping a Run
- Wes's Status Modes
- Shutdown

## Before You Throw the Switch

Ensure that everyone using Wes has:

- Received instruction in general safety practices for laboratories.
- Received instruction in specific safety practices for Wes.
- Received instruction on handling of biohazards (if biohazardous materials are to be used on Wes).
- Read and understood all related SDSs.

## Power Up

- 1. Turn on the computer connected to Wes.
- 2. Turn on Wes's main power switch located on the rear panel.
- 3. Wait for Wes to initialize.
- 4. Double-click the Compass for Simple Western software icon to open the application.

## Step 1 - Get Ready

- 1. Create or open your assay file in Compass for Simple Western.
- 2. Prepare the assay plate following the procedure in the product insert.

NOTE: The first capillary in the cartridge has been optimized for running the ready-to-use biotinylated ladder. Using it for a sample may increase your assay variability.

- 3. Open a capillary cartridge package and insert the cartridge into Wes's cartridge holder. The light in the cartridge holder will change from orange to blue when inserted correctly.
- 4. Remove the plate seal and place the assay plate into Wes's plate holder.
- 5. Click Start.

#### IMPORTANT

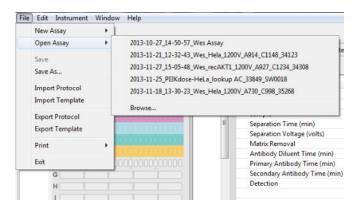
Capillaries are light sensitive. Keep the cartridge in the sealed package until you are ready to insert the capillary cartridge into Wes.

To prevent well evaporation and get the best results, keep a lid on the assay plate until ready to use. Once you've pipetted your sample and reagents into the plate, it can't be stored for later use.

## Step 2 - Start the Run

You can start a run two ways depending on whether you want to run an assay using existing parameters or set up a new assay.

- 1. To start a new run with an existing assay:
  - a. Select File in the main menu and click Open Assay.



- b. A list of the last five assays opened will display. Select one of these assays or click **Browse** to open the Assay folder and select a different one.
- 2. To start a run with a new assay:
  - a. Select **File** in the main menu, click **Open Assay** and select **Wes**. From the pop up window, select the **Assay Type** (Size or Total Protein), **Size Range** (2-40 kDa, 12-230 kDa or 66-440 kDa) and **Cartridge** (either the 25 or 13 Capillary Cartridge).

Assay Type	Size Range	Cartridge
Size	2-40 kDa	25
Total Protein Size	I2-230 kDa	13
	66-440 kDa	

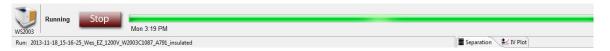
b. The **Start** button will display, which means an assay is already loaded.



- c. Go to the Assay screen and make sure it's the assay you want to use. If not, select **File** in the main menu, click **Open Assay**, and select the correct one.
- 3. Click **Start**. A Start Run window displays with the default run file name and location. Click **Browse** if you want to save it in a different location.

💿 Start Run	×
Assay: Wes-25 Size-Demo Run	
Results file name :	Browse
2016-11-21_14-12-16_Wes-25 Size-Demo Run	
Location: C:\Users\ppiatti\Documents\Compass for SW\Runs	
Comment:	
<b>Δ</b> Confirm there is 15μL of Luminol/Peroxide in each well	Start Cancel

Click **Start** to begin the run. Wes's status will change to **Running**, the **Start** button will change to **Stop** and the **Run Progress Bar** will appear:



Once he's started, Wes will run all your samples to completion (~2.5 hours depending on the assay). To check on the time remaining, click the **Run Summary** tab in the upper right corner of the screen.

## Step 3 - Post-Run Procedures

When the run is done, you'll need to:

- 1. Remove the capillary cartridge.
- 2. Remove the sample plate.

Capillary and sample plate disposal depends on the samples that were assayed. If you aren't sure what your sample origins are, we recommend used cartridges and plates be disposed of as biohazard waste.

#### **!WARNING! SHARPS HAZARD**

Capillaries may present a potential sharps hazard. Dispose of used capillaries according to your institution's sharps disposal policy.



#### **WARNING! BIOHAZARD**

Capillary cartridges and sample plates should be handled by procedures recommended in the CDC/NIH manual: Biosafety in Microbiological and Biomedical Laboratories (BMBL). The manual is available from the U.S. Government Printing Office or online at http://www.cdc.gov/biosafety/publications/bmbl5/.

Depending on the samples used, the capillary cartridge and plate may constitute a biohazard. Dispose of the cartridge and plate in accordance with good laboratory practices and local, state/provincial and national environmental and health regulations. Read and understand the Safety Data Sheets (SDSs) provided by the manufacturers of the chemicals in a waste vial before you store, handle or dispose of chemical waste.

## Stopping a Run

- 1. To stop a run, click **Stop**. When the run stops, Wes's status will change to **Not Ready** and he'll start a process that plugs the capillaries in the cartridge.
- 2. Once that's done, you can remove the capillary cartridge and plate and discard them.

## Self Test

Wes can perform a set of self tests to make sure he's operating properly. To start the testing, select **Instrument** in the main menu and click **Self Test**. Testing will take about 13 minutes.

# The fact functional Window Help Image: Stop Image: St

NOTE: We recommend running the self test before you start a run.

To view the log when the test is done, select Instrument, click Properties and click View Test Log.

## Viewing and Changing System Properties

Select Instrument and click Properties to see Wes's system properties:

- Name
- Location
- Type
- Serial number
- Instrument software version (firmware)
- Network name and address
- Date and time of the instrument clock

🛞 Wes WS2009 - Properties	
Name: Wes WS2009	
Location:	
Type: Wes Network Name: ws2009.local. Serial Number: WS2009 Network Address: 10.1.2.77 Instrument Software: 1.0.19906	
Instrument Date and Time	
2013-11-18 17:05:44 -08:00 Set to PC time	
Error Log Test Log Command Log OK	Cancel

- To change system name or location click in the name or location boxes and enter the new information.
- To sync the instrument clock with the computer click Set to PC time.

## Viewing Error and Test Logs

Select Instrument and click Properties. To view a log, you can either click Error Log or Test Log.

## Wes's Status Modes

The status bar shows Wes's status, buttons and progress bars depending on what he's doing.

- **Ready/Start button** Wes is ready and an assay is loaded. Click **Start** to begin a run.
- **Running/Stop button** Wes is running an assay. The run name, time it started and when it will be done are shown in the run progress bar. Click **Stop** to stop the run.
- Error/Reset button Wes has detected an error. You can go to the Status window in the Run Summary screen to get more details. Once you've been able to correct the error, click Reset.

## Shutdown

- 1. Close Compass for Simple Western and shut down Wes's computer.
- 2. Wes can remain on unless you think he won't be used for more than a week. In that case, you can just turn his power off.

# Chapter 5: Maintenance and Troubleshooting

## Chapter Overview

- Software Updates
- Maintenance
- Troubleshooting

## Software Updates

To check for software updates, go to Compass for Simple Western, select **Help** in the main menu and click **Check for Updates**.

## Instrument Software (Embedded) Updates

To check for embedded updates, go to Compass for Simple Western, select **Instrument** in the main menu, then **Update** and select **Network**. If you are not on the network, call your FAS for assistance on how to obtain the latest update.

## Maintenance

#### Daily

Dispose of the used capillary cartridge and sample plate after each run.

## Yearly

We recommend Wes has annual preventive maintenance performed by an authorized ProteinSimple representative. Please contact Technical Support to schedule a visit toll-free in the US and Canada at 1-888-607-9692 (option 3).

## Troubleshooting

For Wes and Simple Western assay troubleshooting information, please contact ProteinSimple Technical Support toll-free in the US and Canada at (888) 607-9692 (option 3), support@proteinsimple.com or visit http://www.proteinsimple.com/technical\_support.html. You can also contact your local Field Application Specialist for help.

# Chapter 6: General Information

## **Chapter Overview**

- Compliance
- Safety Guidelines
- Customer Service and Technical Support
- Legal Notices

## Compliance

Wes complies with:

- UL 61010-1:2001: Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements (US)
- EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements (EU)
- CAN/CSA 22.2 No. 61010-1-04: Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements (CA)
- EN 61326-1:2006: Electrical equipment for measurement, control and laboratory use. EMC Requirements. General requirements (EU)



## Safety Guidelines

#### !WARNING!

If Wes is not used as specified by ProteinSimple, overall safety will be impaired.

#### !WARNING!

If Wes is damaged and doesn't function properly, stop him safely and contact ProteinSimple Technical Support right away toll-free in the US and Canada at 1-888-607-9692 (option 3).

#### !WARNING!

You cannot replace or service any parts.

#### CAUTION

Avoid using Wes in ways not specified by ProteinSimple. Although Wes has been designed to protect you, this protection may not be effective if he isn't used properly.

#### **Chemical Hazards**

#### **!WARNING! CHEMICAL HAZARD**

Some chemicals used can be potentially hazardous, and can cause injury or illness.

- Read and understand the Safety Data Sheets (SDSs) provided by the chemical manufacturer before you store, handle or work with any chemicals or hazardous materials.
- Minimize contact with and inhalation of chemicals. Wear appropriate personal protective equipment when handling chemicals (e.g., safety glasses, gloves, clothing). For additional safety guidelines, consult the SDS.
- Do not leave chemical containers open.
- Check regularly for chemical leaks or spills. If a leak or spill occurs, follow the manufacturer's cleanup procedures as recommended on the SDS.
- Comply with all local, state/provincial and national laws and regulations related to chemical storage, handling and disposal.

#### **Chemical Waste Hazards**



#### **!WARNING! BIOHAZARD**

Capillary cartridges and sample plates should be handled by procedures recommended in the CDC/NIH manual: Biosafety in Microbiological and Biomedical Laboratories (BMBL). The manual is available from the U.S. Government Printing Office or online at http://www.cdc.gov/biosafety/publications/bmbl5/.

Depending on the samples used, the capillary cartridge and plate may constitute a biohazard. Dispose of the cartridge and plate in accordance with good laboratory practices and local, state/provincial and national environmental and health regulations.

- Read and understand the Safety Data Sheets (SDSs) provided by the manufacturers of the chemicals in a waste container before you store, handle or dispose of chemical waste.
- Minimize contact with chemical waste. Wear appropriate personal protective equipment when handling chemicals (e.g., safety glasses, gloves, clothing).

#### Safety Data Sheets

Some chemicals used with Wes may be listed as hazardous. Warnings are displayed on the labels of all chemicals when hazards exist.

Safety Data Sheets (SDSs) provide users with safety information needed to store, handle, transport and dispose of the chemicals safely. We recommend updating laboratory SDS records periodically.

SDSs for ProteinSimple reagents are available online at www.proteinsimple.com/literature or by calling tollfree in the US and Canada 1-888-607-9692. Otherwise, call the chemical manufacturer directly or visit their web site.

#### Instrument Safety Labels

The following safety labels are located on Wes. Each label will display a safety alert symbol indicating a potential safety hazard.

Symbol	Description
4	Risk of Electric Shock.
	Refer to Wes User Guide before proceeding.
	Danger of hazardous waste. Use caution in these areas. This warning only applies if using hazardous material. Wes reagents are not considered hazardous waste. If you are using hazardous materials, please contact your field service representative to place labels in the appropriate locations.

## **Customer Service and Technical Support**

#### Telephone

(408) 510-5500 (888) 607-9692 (toll free in the US and Canada)

#### Fax

(408) 510-5599

#### E-mail

support@proteinsimple.com

#### Web

www.proteinsimple.com

#### Address

ProteinSimple 3001 Orchard Parkway San Jose, CA 95134 USA

## Legal Notices

NOTE: Read the Legal Notices carefully before using Wes.

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- 2.4 **Ownership.** Company reserves all rights not expressly granted to Customer in this Agreement. Without limiting the generality of the foregoing, Customer acknowledges and agrees that, except as expressly set forth in this Agreement, Company and its suppliers retain all Intellectual Property Rights, title and interest in and to the Licensed Software and Documentation.

#### 3. Support and Maintenance Services

3.1 Services. Subject to Customer's payment of the Services fees, as set forth in the System Quotation, and to the terms and conditions herein, Company will use commercially reasonable efforts to provide to Customer the following support and maintenance services (the "Services") for the Licensed Software: (a) Company will answer technical questions concerning functions and features of the Licensed Software; (b) Company will provide Error verification, analysis and corrective efforts for the Licensed Software; and (c) Company will provide, without charge, Updates of the software released during the term of this Agreement. Customer will be responsible for providing, in a manner consistent with good industry practice, all Services to Users. Customer acknowledges that Company may not be able to correct all reported Errors. Any Update of the Licensed Software will be deemed part of the Licensed Software and Customer will use such Updates in accordance with the requirements and obligations in this Agreement.

- 3.2 Service Conditions. Company's obligation to provide the Services is conditioned on Customer: (a) notifying Company of any Error within a reasonable period of time; (b) providing Company all information relating to the Error; (c) providing access to the Licensed Software and Customer's facility where the Licensed Software is located and informing Company of any potential hazards which may be encountered while servicing the Licensed Software. Customer may contact Company via telephone toll-free in the US and Canada 1-888-607-9692 or e-mail at support@proteinsimple.com during the hours of 8:00 AM (Pacific Time) and 5:00 PM (Pacific Time) Monday through Friday, excluding holidays, to report any Error. A list of standard holidays will be provided to Customer upon request. Company shall have the right to determine in its sole discretion what corrective action Company will perform to support the Licensed Software. Company may subcontract the Services to a third party contractor provided that Company will be responsible for the third party contractor's compliance with this Agreement.
- 3.3 Service Exclusions. Company will not be obligated to provide the Services if (a) Company determines that an Error is caused by malfunction of any hardware (other than malfunction of the System) or third party software used with the Licensed Software; or (b) Customer has failed to incorporate the latest Update previously released to Customer.

#### 4. Warranty

- 4.1 Licensed Software Warranty. Company warrants that the Licensed Software, as properly installed, and under normal use, will perform substantially in accordance with its Documentation during the Warranty Period. The "Warranty Period" for the Licensed Software begins on date Customer downloads the Licensed Software and ends twelve (12) months thereafter.
- 4.2 Remedy. If Customer notifies Company in writing during the Warranty Period of an Error, Company will, at its expense and as its sole obligation for any breach of the foregoing warranty, use commercially reasonable efforts to correct the Error or replace the Licensed Software. Any Error correction or replacement of the Licensed Software will not extend the original Warranty Period. The warranty and the remedies provided above will not apply to the Licensed Software if (a) Company determines that an Error is caused by accident, abuse, misuse, negligence, fire, earthquake, flood, other force majeure event, failure of electrical power, the use of unauthorized products or unauthorized repairs or modifications; (b) Company determines that an Error is caused during or as a result of delivery; (c) a problem arises from or is based on Company's compliance with Customer's specifications; or (d) Company determines that an Error is caused with the Licensed Software.
- 4.3 **Disclaimer.** THE WARRANTIES ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NONINFRINGEMENT.
- 5. Limitation of Liability. NEITHER COMPANY NOR ITS SUPPLIERS SHALL BE RESPONSIBLE OR LIABLE WITH RESPECT TO ANY SUBJECT MATTER OF THIS AGREEMENT OR TERMS OR CONDITIONS RELATED THERETO UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER THEORY (A) FOR LOSS OR INACCURACY OF DATA, LOSS OF PROFITS OR COST OF PROCUREMENT OF SUBSTITUTE GOODS, SERVICES OR TECHNOLOGY, OR (B) FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO LOSS OF REVENUES AND LOSS OF PROFITS. COMPANY'S AGGREGATE CUMULATIVE LIABILITY HEREUNDER SHALL NOT EXCEED THE GREATER OF FIVE HUNDRED DOLLARS (\$500.00).

#### 6. Term and Termination

- 6.1 **Term of Agreement.** The Agreement is effective on the date Customer downloads the Licensed Software and shall remain in effect until terminated by either party as provided in this section.
- 6.2 **Termination For Material Breach.** Either party may terminate this Agreement upon written notice if the other party materially breaches this Agreement and fails to cure such breach within thirty (30) calendar days following receipt of written notice from the other party specifying the breach in detail. Notwithstanding the foregoing, Company may immediately terminate this Agreement and all licenses granted hereunder if Customer breaches Section 2 (License and Restrictions) hereof or upon termination of the System Quotation. The foregoing rights of termination are in addition to any other rights and remedies provided in this Agreement or by law.
- 6.3 **Effect of Termination.** Upon termination of this Agreement (or termination or expiration of any license granted hereunder), all rights of Customer to use the Licensed Software and Documentation will cease and (a) all license rights granted under this Agreement will immediately terminate and Customer shall promptly stop all use of the Licensed Software and Documentation; (b) all Services will terminate immediately; (c) Customer shall promptly erase all copies of the Licensed Software from Customer's computers, and destroy all copies of the Licensed Software and Documentation or tangible media in Customer's possession or control or return such copies to Company; and (d) upon request by Company, Customer shall certify in writing to Company that it has returned or destroyed such Licensed Software and Documentation. The parties' rights and obligations under Sections 1 (Definitions), 2.4 (Ownership), 4.3 (Disclaimer), 5 (Limitation of Liability), 6 (Term and Termination), and 7 (General) shall survive termination of this Agreement.

#### 7. General

- 7.1 Assignment. This Agreement and Customer's rights hereunder may not be assigned to any third party by Customer except with the prior written approval of Company. Any attempted assignment of this Agreement or any rights or obligations hereunder will be null and void.
- 7.2 **Governing Law.** This Agreement is made in, governed by, and shall be construed in accordance with the laws of the State of California, without regard to any conflicts of law principles that would result in application of laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this contract. Any legal action or other legal proceeding relating to this contract or the enforcement of any provision of this contract must be brought in any state or federal court located in Santa Clara County, California. Customer and Company expressly and irrevocably consents and submits to the jurisdiction of such courts.
- 7.3 **Injunctive Relief.** Customer acknowledges that the Licensed Software contains valuable trade secrets and proprietary information of Company, that any actual or threatened breach of this Agreement will cause harm to Company for which monetary damages would be an inadequate remedy, and that injunctive relief is an appropriate remedy for such breach.
- 7.4 **Modifications.** Company reserves the right to change the terms and conditions of this Agreement or its policies relating to the Licensed Software at any time. Company will notify Customer of any material changes to this Agreement by sending Customer an e-mail to the last e-mail address Customer provided to Company or by prominently posting notice of the changes on Company's website. Any material changes to this Agreement will be effective upon the earlier of thirty (30) calendar days following Company's dispatch of an e-mail notice to Customer or thirty (30) calendar days following Company's posting of notice of the changes on Company's website. These changes will be effective immediately for new users of our Licensed Software. Please note that at all times Customer is responsible for providing Company with its most current e-mail address. In the event that the last e-mail address that Customer has provided Company is not valid, or for any reason Company is not capable of delivering to Customer the notice described above, Company's dispatch of the e-mail containing such notice will nonetheless constitute effective notice of the changes described in the notice. If Customer does not agree with the changes to this Agreement, Customer must notify Company prior to the effective date of the changes that Customer wishes to terminate its license to the Licensed Software. Continued use of the Licensed Software, following notice of such changes, shall indicate Customer's acknowledgement of such changes and agreement to be bound by the terms and conditions of such changes.
- 7.5 Severability. In the event any provision of this Agreement is held to be invalid or unenforceable, the remaining provisions of this Agreement will remain in full force.
- 7.6 **Waiver.** The waiver by either party of any default or breach of this Agreement shall not constitute a waiver of any other or subsequent default or breach.
- 7.7 **Export.** Customer agrees not to export, reexport or transfer, directly or indirectly, any U.S. technical data acquired from Company, or any products utilizing such data, in violation of the United States export laws or regulations.
- 7.8 Force Majeure. Company shall not be liable, directly or indirectly, for any delay or failure in performance of any obligation under this Agreement, including any delivery obligation, where such delay or failure arises or results from a cause beyond Company's reasonable control, or beyond the reasonable control of Company's suppliers or contractors, including, but not limited to strike, boycott or other labor disputes, embargo, governmental regulation, inability or delay in obtaining materials, acts of God, war, earthquake, fire or flood. In the event of such force majeure, the time for delivery or other performance will be extended for a period equal to the duration of the delay caused thereby, provided that Company notifies Customer of the nature and duration of such force majeure event.
- 7.9 Entire Agreement; Notice. This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous agreements or representations, written or oral, concerning the subject matter of this Agreement. Except as otherwise expressly provided in this Agreement, any modifications of this Agreement must be in writing and agreed to by both parties. Company may provide any notice to Customer by e-mail. Customer may provide notice to Company by sending an e-mail to info@proteinsimple.com or a letter by United States mail to ProteinSimple, 3001 Orchard Parkway, San Jose, CA 95134, or to such other address as Company may specify in writing by posting the new address on the Company website.
- 7.10 Relationship of the Parties. The parties are acting hereunder as independent contractors and not as partners, agents, fiduciaries or joint venturers. Neither party has the power or authority represent, act for, bind or otherwise create or assume any obligation on behalf of the other party.