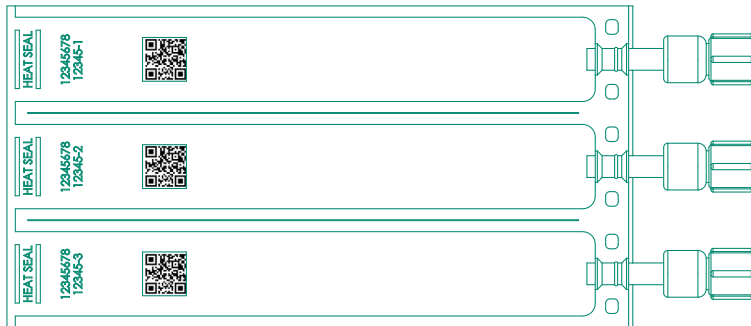


Omics Pouch

Instructions for Use



1 Read this before unpacking or using the Omics Pouch



This instruction contains information that is important for the safe handling, unpacking, and preparation of the Omics Pouch for use. All users must read the entire *VIA Extractor™ Operating Instructions 29427281* before installing, operating, or maintaining the product.

2 Intended use

Omics Pouch is a single-use, standalone, multi-compartment sample bag, intended for use only in combination with the VIA Extractor system for dissociation of tissue into single-cell suspension.

Omics Pouch is intended for research or further manufacturing use only. Not intended for clinical procedures or for diagnostic purposes.

3 Description

Omics Pouch is a preassembled, single-use consumable that consists of:

- A bag divided into 3 individual compartments to carry the sample during the digestion process,
- Tube ports to allow the addition of solutions and collection of the digested sample.

It is recommended that each individual compartment of the pouch can contain up to 1 g of sample and up to 4 mL of reagent volume, with a minimum volume of 2 mL of reagent required.

4 Important user information



WARNING

The sample bag is intended for single-use only. Treat the used sample bag as biohazardous waste and follow local regulations for disposal.



WARNING

Do not use the single-use sample bag if the expiry date has passed or if the pouch is not intact.



WARNING

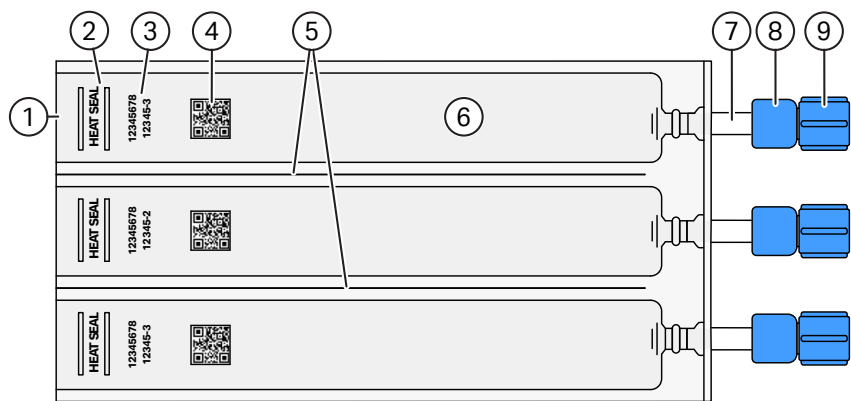
Always use appropriate Personal Protective Equipment (PPE) during operation and maintenance of this product.

5 Description of the symbols on the label

The following symbols may be present on the label of the pouch.

Symbol	Description	Symbol	Description
	Use before this date.		Minimum and maximum temperature.
	Do not re-use.		Follow operating instructions.
	Product number.		Do not use in case the package is damaged.
	Batch number.		Non-pyrogenic.

6 Illustration of the pouch



Part	Description
1	Pouch compartment opening
2	Heat seal mark
3	Batch number and unitary number
4	QR code
5	Pre-cuts for detaching the pouch compartments
6	Sample holding area of the pouch compartment
7	Tube port
8	Needle free valve
9	Needle free valve cap

7 Required material

The following material is required to use in combination with Omics Pouch for dissociation of tissue.

Source	Material
Provided by Cytiva	• VIA Extractor instrument • VIA Freeze™ Uno instrument • Omics Applicator • Omics Clamp
Provided by the user	• Sample • Luer lock syringe • Digestive solutions • Heat sealer

8 Verify the packaging

Step	Action
1	Inspect the box and look for any signs of visible damage.
2	If there is any doubt about the integrity of the packaging, put it aside and contact Cytiva.
3	Make sure the expiry date has not passed. If the expiry date has passed, do not use the product.

9 Unpack Omics Pouch

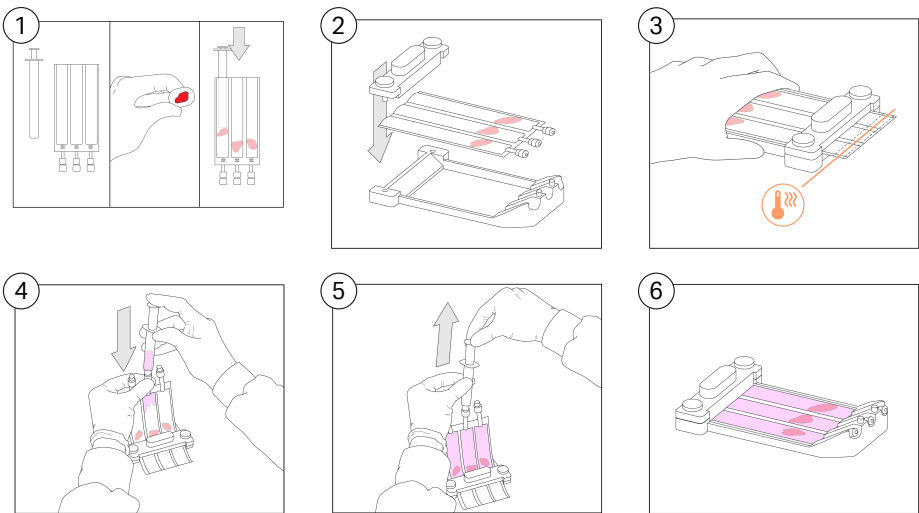
Step	Action
1	Open the box and remove the package with 10 vacuum packed pouches.
2	Open the package and remove one pouch within the protective wrapping.
3	Open the protective wrapping and take out the pouch.
4	Visually verify that there are no ruptures, kinks, or missing parts.
5	If any components are missing, damaged or not correctly mounted, do not use the pouch and contact our technical support. Keep the pouch for further investigation by our technical support.

10 Instructions for use

Prepare the sample in Omics Pouch

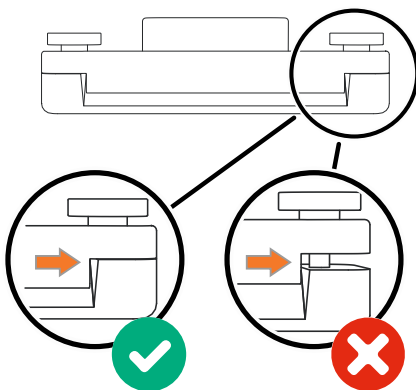
- Note:** If the digestion procedure requires controlled temperature, make sure that VIA Extractor is at the desired temperature before preparing the sample. See the VIA Extractor Operating Instructions 29427281.
- Note:** It is possible to use the compartments of Omics Pouch individually. If used individually, make sure to detach the pouch compartments before placing the sample by cutting the pouch along the existing pre-cuts (see part 5 in [Chapter 6 Illustration of the pouch, on page 7](#)).

Follow the steps below to prepare the sample in Omics Pouch.



Step	Action
1	Place the sample in each compartment of Omics Pouch using Omics Applicator. Make sure to avoid contact between the sample and the opening of the pouch compartment. Follow the instructions below. a. Remove the plunger from the applicator. b. Insert the applicator in the compartment. c. Add the sample into the applicator using forceps. d. Insert the plunger into the applicator releasing the sample into the pouch compartment.

Step	Action
2	Fit the tube port (s) of the pouch containing the sample into the receiver feature of Omics Clamp and secure the open end of the pouch by alternately tightening the two screws on the clamp. See the <i>Omics Clamp Instructions for Use 29593059</i> . Make sure that the upper and lower shoulders of the clamp are touching on both sides. If there is a gap, tighten the screws more.



Note:

Do not fully tighten one screw of the clamp and then the other as the clamping pressure will be uneven.

Note:

The clamp is a replaceable part. regularly verify the sealing edge of the clamp and replace if damaged. See [Chapter 14 Ordering information, on page 19](#).

- | | |
|---|--|
| 3 | Use a heat sealer to seal the pouch on or near the specified heat seal mark. For more information about heat sealing, see Chapter 11 Troubleshooting guide for the heat seal, on page 15 . |
|---|--|

Note:

Prior to sealing, make sure the ends of the pouch are fully dry, free from any liquid drips.

- | | |
|---|--|
| 4 | Add the digestive solution (e.g., enzyme solution) via the needle free valve using a syringe. Make sure to keep the valve cap aside to close the tube port at a later stage. |
|---|--|

Note:

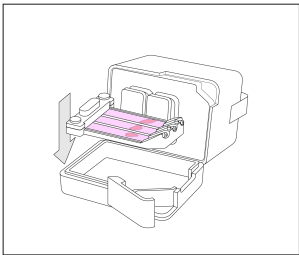
It is recommended to use a Luer lock syringe.

- | | |
|---|---|
| 5 | Make sure the pouch does not contain excess air. If needed, remove the air by connecting a syringe to the needle free valve and aspirate the air. |
|---|---|

Step	Action
6	Verify that there is no leak from the sealed end of the pouch and that the tube ports are closed. If leakage is detected, re-seal the pouch using a heat sealer and tighten the two screws on the clamp. <i>Result:</i> Omics Pouch is ready to be loaded into the VIA Extractor instrument.

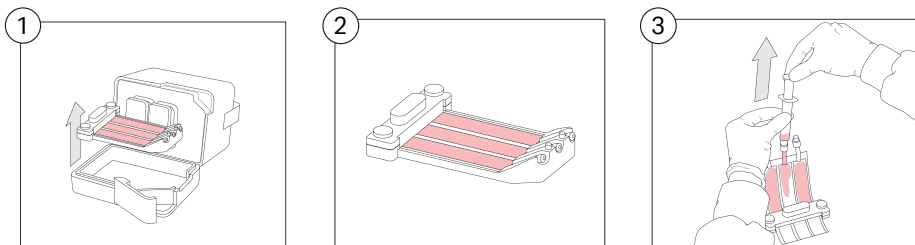
Prepare Omics Pouch for digestion

Note: *If the digestion procedure requires controlled temperature, make sure that VIA Extractor is at the desired temperature before loading Omics Pouch.*

Step	Action
1	Load the pouch in the VIA Extractor instrument. 
2	Start the digestion procedure. See the <i>VIA Extractor Operating Instructions 29427281</i> for more information.

Recover the digested sample from Omics Pouch

Follow the steps below to recover the digested samples from Omics Pouch, once the digestion procedure is finished. For more information regarding the end of a digestion procedure, see the *VIA Extractor Operating Instructions 29427281*



Step	Action
1	Remove the Omics Pouch and Omics Clamp assembly from the VIA Extractor instrument.
2	Make sure to keep the bag on the clamp.
3	Use a Luer lock syringe to recover the sample from each individual compartment.
4	Optional: Wash the pouch compartments with appropriate buffer or cell culture media to recover any remaining digested sample.

11 Troubleshooting guide for the heat seal

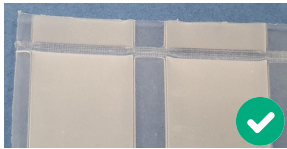
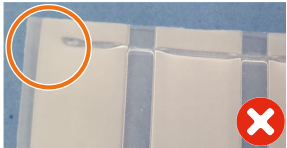
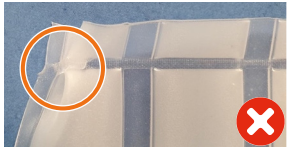
Poor seals, for example incomplete or folded, can result in gaps and channels that may allow the sample or enzyme solution to leak from Omics Pouch. The user is responsible for verifying that the heat seal was correctly performed. The table below contains suggestions for improving the quality of the heat seal.

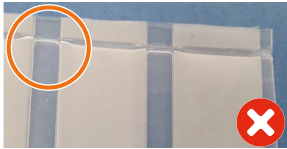
Note: *The following heat sealers were validated with Omics Pouch to provide good quality heat seals:*

- *ULINE H-190 Impulse Sealer*
- *AUDION Super Poly 281PS Impulse Sealer*

Note: *Prior to sealing, make sure the ends of the pouch are fully dry, free from any liquid drips.*

Note: *Omics Clamp is designed to maintain a seal. Make sure to fully tighten the clamp in addition to heat sealing.*

Heat seal	Description	Cause	Corrective action
Perfect heat seal 	The seal is clear and consistent from edge to edge, without folds, channels or gaps.	N/A	N/A
Incomplete heat seal 	The seal does not reach the edge of the pouch.	Incorrect placement of the pouch on the heating bar.	Position the pouch in the middle of the heating bar prior to sealing.
Folded heat seal 	The seal contains folds that may lead to leakage of the sample and/or enzyme solution.	Incorrect placement of the pouch on the heating bar.	Make sure that the pouch is laid flat across the heating bar of the sealer before starting the sealing process.

Heat seal	Description	Cause	Corrective action
Imperfect heat seal 	The seal is cloudy, slightly ridged at the edge, and presents small channels where the seal meets the edge.	The heating setting on the sealer is too low to allow melting of the two EVA sheets of the pouch, specifically at the edges.	Increase the heat level setting on the sealer. If using the recommended sealer, make sure to use heat level setting 4.

12 Compatible solutions

The following solutions are compatible for use with Omics Pouch. Follow your SOPs to determine the adequate volumes of the solutions, making sure that the final volume does not exceed the total capacity of the bag.

Process	Solution
Enzymatic digestion	Omics Pouch is compatible to use with commercially available digestive enzymatic solutions for digestion of tissue.
Cell culture media and solutions	Omics Pouch is compatible to use with commercially available cell culture media and solutions.
Cryopreservation	Omics Pouch is compatible to use with commercially available cryopreservation solutions.
	Dimethyl sulfoxide (DMSO) up to 20% v/v.

13 Environmental conditions

Store Omics Pouch in a clean and dry environment without chemical or biological contamination, under the following conditions.

Mode	Operation	Storage and transport
Temperature	0°C to 40°C	4°C to 40°C
Relative humidity	20% to 100%	20% to 75% non-condensing

14 Ordering information

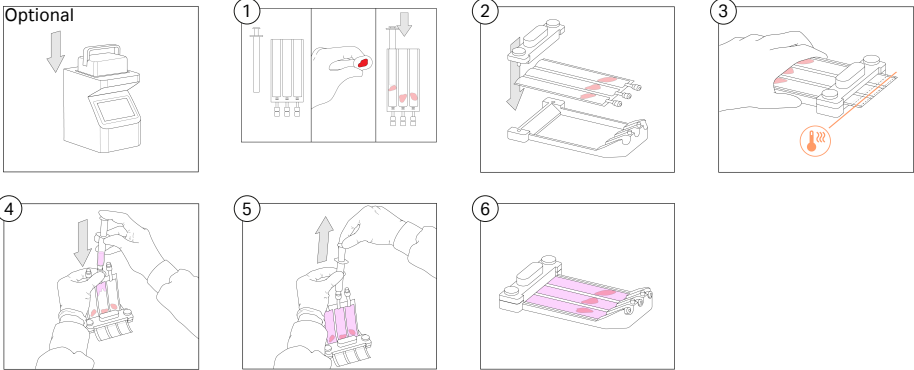
Product	Product code
Omics Pouch Pack 10	29726921

For related products, contact you local Cytiva representative or visit [cytiva.com](https://www.cytiva.com).

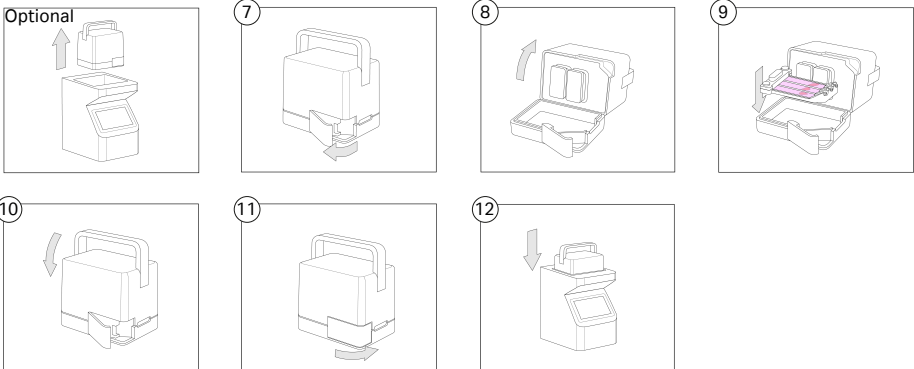
Appendix A

Overview of a typical workflow

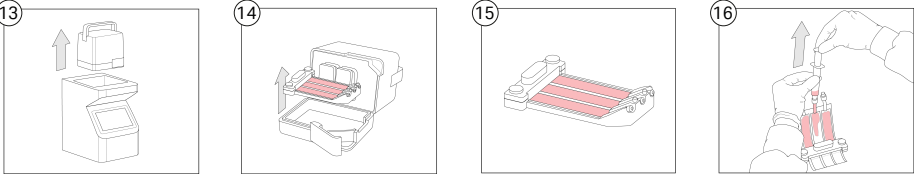
Sample preparation



Preparation for digestion



Sample recovery



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