Olink®

COVID-19 1% TritonX-100 Inactivation protocol

Guidelines

Olink Proteomics, Analysis Service Uppsala and Analysis Service Boston accept COVID-19 patient samples for testing according to the following guidelines:

All samples should be TritonX-100 inactivated according to the following protocol PRIOR TO SHIPPING:

- Volume/sample for 1% TritonX-100 inactivation: 45 µL
- TritonX-100 and PBS
- Duration: 2 hours
- Temperature: Room temperature

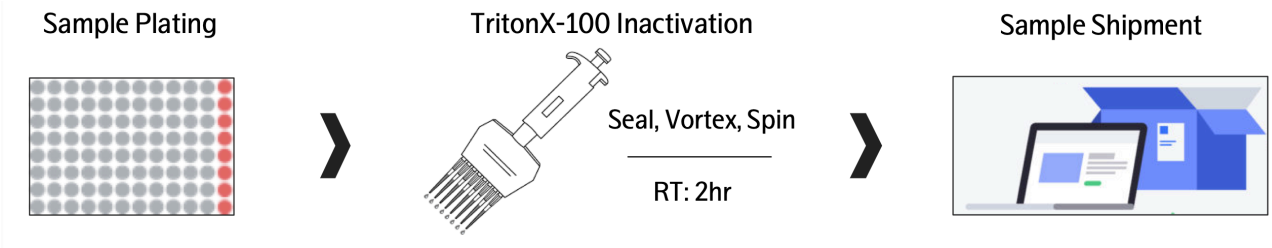
NOTE: *ALL samples that are being analyzed for a COVID-19 project should go through the same inactivation protocol, REGARDLESS of COVID-19 status (positive or negative).*

Preparation

Overview

There are two steps in the protocol before shipping the COVID-19 samples to Olink:

1. Plating the samples according to Olink guidelines.
2. 1% TritonX-100 inactivation according to Olink guidelines.

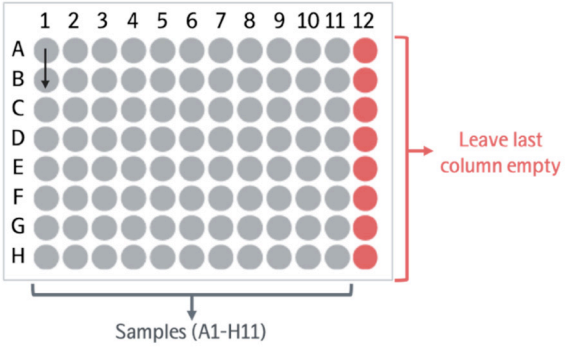


Required material and equipment

- 96-well PCR plate (compatible for up to 200 µL)
  NOTE: *Make sure the plate is -80°C, dry-ice resistant and easily resealable.*
- Stock solution: 1 mL of 10% TritonX-100 in PBS per 96-well plate
- 8-well PCR strip
- Adhesive plastic film (temperature-resistant) **compatible with -80°C**, and heat resistant up to minimum +56°C (e.g. seal from Life Technologies #4306311)

Sample plating

- Pre-processing of blood samples: **Serum and plasma** need to be prepared according to standard protocols, aliquoted and inactivated before shipping to Olink. Whole blood or unprocessed serum/plasma samples cannot be sent.
- Plate **45 µL** of each sample in a temperature-resistant, non-protein binding plastics.
  NOTE: *Please note that the maximum sample volume recommended for shipment in plates is 100 µL.*
- Ensure that your samples are randomized and balanced across all your plates in the order ready to be run and compatible with our plate layout (see below).
  NOTE: *For any assistance with randomization, please contact support@olink.com.*



Protocol: 1% TritonX-100 inactivation

1. Prepare 10% TritonX-100 stock: Add 100 µL TritonX-100 into 900 µL PBS and pipette up and down slowly to mix.
2. Distribute 100 µL 10% TritonX-100 stock into each well of 8-well PCR strip (per sample plate).
3. To each sample well, add 10% TritonX-100 to final concentration of 1% using an 8-channel multichannel pipette:

Sample volume	10% TritonX-100 volume	Final volume
45 µL	5 µL	50 µL

4. Ensure that each well is separately sealed using an adhesive film or individual seals.
5. Vortex the plates thoroughly and spin down at 400g x 1min at RT.
6. Incubate the sample plate in the biosafety hood at RT for 2 hours.
7. Store your sample plates in -80°C freezer until ready for shipping.

Sample shipping

IMPORTANT: BEFORE SHIPPING THE SAMPLES, the COVID-19 protocol certification document needs to be signed and sent to Olink team. Please contact support@olink.com to receive this document.

- Samples should be shipped on dry ice, sufficient for shipment to the Analysis Service lab in Uppsala or Boston.
- Make sure the plates are securely sealed, add extra adsorption paper in case of leakage and make sure to place the sample plates in a sealed bag.
- Ensure that the heavy dry ice will not damage the samples during shipment.
- Contact your preferred courier for local regulations regarding appropriate labeling for risk assessment and shipment of your human samples on dry ice.
- Place a copy of the Work Order as well as the COVID-19 inactivation protocol certification in the parcel to identify samples.
- Send the tracking number and courier company name to the corresponding service unit: service@olink.com (Uppsala) or service_boston@olink.com (Boston), and add quote number in the communication.
  NOTE: *Our business hours are Mon-Fri 8 a.m. to 5 p.m.*
- Upon arrival, the samples and documents will be examined, and you will receive a confirmation email.

www.olink.com

Olink Proteomics, Dag Hammarskjölds väg 52B , SE-752 37 Uppsala, Sweden

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