

## **MEMORANDUM**

To: Whom It May Concern

From: Moderna

Re: Transport of Moderna COVID-19 Vaccine

The Moderna COVID-19 Vaccine (aka "COVID-19 Vaccine Moderna") should be stored in accordance with the locally approved label. Moderna recommends that the Moderna COVID-19 Vaccine should be stored and transported in the frozen state at -25°C to -15°C (- 13°F to 5°F) and should not be transported or stored below -40°C (-40°F).

We understand however that there are circumstances in which frozen state transport is not feasible. In order to assess the impact of local (also known as "Last Mile") transportation conditions in liquid state at 2-8°C, Moderna has conducted transportation studies. These studies have shown that the Moderna COVID-19 Vaccine maintains its quality attributes in the liquid state at 2-8°C for up to 12 hours when shipped: (i) using shipping containers which have been qualified to maintain 2-8°C; and (ii) under routine road and air transport conditions with shaking and vibration minimized.

Please note: Once thawed and transported in liquid state at 2-8°C, the Moderna COVID-19 Vaccine should not be refrozen and should be stored at 2-8°C until use.