Supplementary Data

Supplementary Figure 1. The EldonCard as a test of point-of-care, hemagglutination for ABO typing.

The EldonCard (A) is a commercially sold point-of-care test for blood typing. The kit (B) includes an alcohol pad to sterilize a finger tip, and lancet to yield drops of blood. Plastic sticks are included to help collect and stir blood drops. The card is kept in a desiccating pouch for shipping and is stable at room temperature. (C) The Eldon Card itself has antibodies against the ABO and Rh blood groups dried onto spots on the card. Results from testing an A-positive person is shown, demonstrating strong agglutination.
Supplementary Figure 2. Tilted cards can facilitate agglutination scoring. Tilted cards were evaluated for agglutination after the last step stirring step. Strong agglutinations (ex: 4) quantified the majority of red blood cells sticking together, with a white background without unbound cells. Weaker reactions (ex: 2) had smaller, but frequent agglutinations, that were observed during card tilting. The scores of 0 and 1 were deemed negative for the purpose of the test.

| Score | Positive | Score | Negative |
|-------|----------|-------|----------|
| 4     | ![Image](image1.png) | 1     | ![Image](image2.png) |
| 3.5   | ![Image](image3.png) | 0     | ![Image](image4.png) |
| 3     | ![Image](image5.png) |       |          |
| 2.5   | ![Image](image6.png) |       |          |
| 2     | ![Image](image7.png) |       |          |
Supplementary Video 1. Demonstration of point-of-care testing for SARS-CoV-2 antibody detection with a hemagglutination test

A vaccinated individual demonstrates the protocol to detect antibodies on the EldonCard. The assay is stopped after the first round of card tilting since a strong agglutination is already observed. Weaker agglutinations would continue with three minutes of incubation time, followed by a second round of card tilting.

Video Link: https://www.youtube.com/watch?v=Uu4oawH4Hho