CDC B-Roll

TITLE: CDC laboratory robot performing SARS-CoV-2 antibody testing

Overview:

This b-roll depicts the lab work involved in serology testing. This laboratory robot performs all the steps of the SARS-CoV-2 antibody test from sample loading through antibody detection in one workflow, and it can test over 3,600 samples a day. A public health scientist can test about 400 samples a day by hand. The use of automated laboratory robots will improve antibody testing capacity, resulting in more data to help monitor and respond to the COVID-19 pandemic.

Time: (0:00-0:42)

1. CDC scientist loads serology sample plates into rack
2. CDC scientist loads serology sample plates into rack (close-up)
3. CDC scientist loads serology sample plates (close-up)

Time: (0:43-1:28)

4. CDC scientist moves loaded plate rack off of laboratory bench
5. CDC scientist moves loaded plate rack into specimen loading carousel
6. CDC scientist places loaded plate rack into specimen loading carousel
7. CDC scientist adjusts loaded plate rack in specimen loading carousel

Time: (1:29-2:17)

8. CDC scientist loads serology test supplies into laboratory robot
9. CDC scientist loads serology sample supplies into laboratory robot (close-up)

Time: (2:18-2:27)

10. CDC scientist closes laboratory robot door and uses a computer to turn on the robot.

Time (2:28-2:40)

11. CDC scientist closes laboratory robot door and uses a computer to turn on the robot (close up)

Time (2:41-3:03)

12. Laboratory robot moves a serology sample plate

Time (3:04-3:46)

13. Laboratory robot arm picks up and moves a serology sample plate
14. Robot releases serology sample plate and second arm picks up a serology sample plate

Time (3:47-4:00)

15. Laboratory robot arm picks up serology sample plate
16. Laboratory robot dips pipette tips into serology sample plate

Time (4:01-4:07)

17. CDC scientist monitors laboratory robot arm pick up and moves a serology sample plate

Time (4:08-4:37)

18. After the laboratory robot completes testing, CDC scientist uses a computer to analyze serology testing results