

B-Roll Shot List of Tox 21 Robotic Testing System

Time code begins at 00:00:00:00 for the full-HD resolution MPEG video file, which is identical to the MP4 screening file. Total Running time: 9:05.

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#	Time Code In	Time Code Out	Duration (seconds)	Description
1	00:00:00	00:00:04	4	Title slate
2	00:00:04	00:00:13	9	WS, pan exterior, entrance of lab facility including the Tox 21 testing robot.
3	00:00:13	00:00:17	4	WS, lab center sign
4	00:00:17	00:00:22	6	MS entry door, lab facility
5	00:00:22	00:00:26	4	Medium close, NIH sign outside Tox21 facility.
6	00:00:26	00:00:45	19	WS of yellow robot arm reaching screen right to move plate from incubator, rotate to left and place plate on a reader.
7	00:00:45	00:01:00	15	WS of robot pulling plate out of a different incubator (and a different angle looking down the length of the robot arm) and placing on a reader.
8	00:01:00	00:01:09	9	MS of reader positioning plate for removal by robot arm.
9	00:01:09	00:01:18	9	WS, robot reaching right and pulling plate from carousel, rotates anti-clockwise and places plate on detector.
10	00:01:18	00:01:25	7	MS robot hand removes plate from detector and moves out of frame.
11	00:01:25	00:01:31	6	WS, tilt up, side view of Greg Simanovsky, senior control engineer from Aspect Automation, works at the computer that controls the robot arm's movement.
12	00:01:31	00:01:40	9	WS OTS, Greg Simanovsky, senior control engineer from Aspect Automation, works at the computer that controls the robot arm's movement, and he walks out of frame.
13	00:01:41	00:01:47	6	MS OTS, Greg Simanovsky, senior control engineer from Aspect Automation, works at the computer that controls the robot arm's movement
14	00:01:47	00:01:51	4	WS of control knobs, dials and computer screen
15	00:01:51	00:01:55	4	CU a robot hand
16	00:01:55	00:01:58	4	CU warning lights on edge of robotic stage
17	00:01:58	00:02:15	17	MS Tilt down of robot arm and hand
18	00:02:15	00:02:19		CU, pressure meter (in off position)
19	00:02:19	00:02:45	26	WS of robot hand in foreground with detectors in b.g. moving a plate into position for removal, and then arm moves longitudinally through the frame to grab the plate and spin out of frame.
20	00:02:45	00:03:00	15	CU floor mount for removing plate covers, robot arm moves in, deposits a plate, snap pan/tilt to detector where robot deposit

				plate in CU.
21	00:03:00	00:03:14	14	WS of robot removing plate cover and placing plate on detector.
22	00:03:14	00:03:34	20	CU detector top, showing plates moving around inside and the coming out to be removed by robot hand.
23	00:03:34	00:06:35	3:01	CU of mixing station for plates (where microliters of fluid are blown by air from one plate to another plate). Very dance like, with one plate turned over the other.
24	00:06:35	00:07:27	00:52	WS of robot arm reaching right,
25	00:07:27	00:07:56	29	WS of robot arm placing plate in distribution system for filling plate wells.
25	00:07:56	00:09:12	1:16	CU plates in well-filling system. Placed, filled and removed by robot.
27	00:09:12	00:09:16	4	Credits
28	00:09:16	00:09:24	8	Genome Productions closing animation