2. Open the lid and remove the adhesive seals from the cassette(s).
4. Replace the contents of the sample wells with CATCH Reaction Mix, 80µl.
4. Replace the contents of the reagent wells with Enzyme Buffer (C), 230µl.
5. Close the lid (do not re-seal the wells).
6. In the pop-up window, press “OK” to resume the workflow.
7. The User Event timer will countdown 1 minute.

8. At the end of the count down, the instrument will pause and a pop-up window will appear:

Replace sample well contents with 80µl of Enzyme Buffer (C)
When done, close the lid and click OK to continue.

8. Open the lid.
9. Replace the contents of the sample wells with Enzyme Buffer (C), 80µl.
10. Close the lid (do not re-seal the wells).
11. In the pop-up window, press “OK” to resume the workflow.
12. The User Event timer will countdown 30 minutes.

H. Stage 3: Collection

1. At the end of the count down, the instrument will pause and a pop-up window will appear:

Stop Reaction: Replace reagent well contents with 230µl of HLS Lysis Reagent (A). Seal with tape.
When done, close the lid and click OK to continue.

2. Open the lid.
3. Replace the contents of the reagent wells with Lysis Reagent (A, H or G), 230µl.
4. Seal the wells with new adhesive tapes and close the lid.
5. In the pop-up window, press “OK” to resume the workflow.
6. The User Event timer will countdown base on the target range (2-6hrs).
7. At the end of the count down, the run will end, and samples may be removed.

Caution! Slowly pipette eluants with wide-bore tips to prevent shearing of DNA fragments.
A. Prepare a cell suspension (refer to the guide provided with the kit)

B. Prepare the Gel Cassette (refer to Section 4 in the SageHLS Operations Manual)

1. Clear air bubbles around the perimeter of the gel columns
2. Clear air bubbles from behind the elution wells
3. Place cassette(s) on instrument nest(s) and remove adhesive tape(s)
4. Replace the connect of the elution wells with 80µl of Running Buffer (E)
5. Add Running Buffer (E) to upper buffer chambers of each sample column until the buffer level is flush with the cassette cover

C. Prepare for the Run in the SageHLS Software

1. Go to the Main Screen
2. Press the folder icon and select “HLS_CATCH” from the file folder pop-up. Select a file with size range suffix that matches the genomic target size:
3. Select the samples lanes to be used by clicking the check boxes, and enter sample IDs in the text fields (optional):

D. Run the Check Current Test

1. Close the lid
2. Press the “Check Current” button in the Command Menu:
4. At the completion of a successful Check Current test, press “Return”:

E. Begin the Run

1. Press the “Run Workflow” button in the Command Menu:
2. Open the lid.
3. Replace the contents of the sample wells with Cell Suspension, 70µl
4. Replace the contents of the reagent wells with Lysis Reagent (A, H or G), 230µl
5. Seal the wells with adhesive tape
6. Close the lid.
7. In the pop-up window, press “OK” to resume the workflow.

Caution! Without hurrying, users should minimize the length of the pause. It is important to load all sample wells first, and reagent wells second.

8. The User Event timer will countdown ~1 hr.

G. Stage 2: Treatment

1. At the end of the count down, the instrument will pause and a pop-up window will appear: