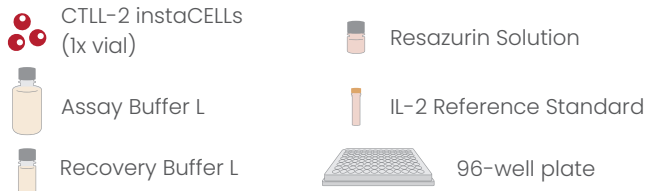


## kit content



## not provided

15ml centrifuge tube, PBS

## storage

Store instaCELLs in liquid nitrogen (below  $-140^{\circ}\text{C}$ )  
Store all reagents and media at temperatures indicated on the label

+

## limited product warranty

This warranty limits our liability to replace this product. acCELLerate does not provide any other warranties of any kind, expressed or implied. Without limitation, this includes implied warranties of merchantability or fitness for a particular purpose. acCELLerate shall have no liability for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product. The product is for research only and must not be used for diagnostic or therapeutic purposes.

## limited use license

instaCELLs are provided under a limited use license and shall only be used instantly for the particular purpose of the instaCELL bioassay kit. No further expansion, passaging or refreezing of the cells is permitted. When breaking the sealed bag of Assay Ready Cells, the user is explicitly accepting the terms of this limited use license.

instaCELL is a registered trademark of acCELLerate GmbH.

## EUROPEAN OFFICE

+49 (160) 987 577 56

acCELLerate GmbH  
Osterfeldstraße 12-14  
22529 Hamburg  
Germany

## US OFFICE

+1 (732) 698 34 04

acCELLerate, Inc.  
400 Route 518  
Skillman, NJ 08558  
USA



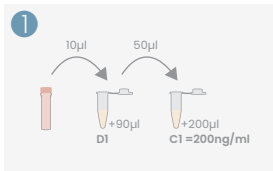
[please@accellerate.me](mailto:please@accellerate.me)  
[www.accellerate.me](http://www.accellerate.me)

CatN° SF350-01

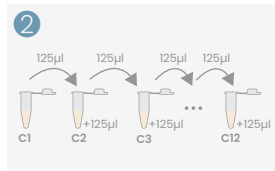
## instaCELL IL-2 potency assay kit protocol



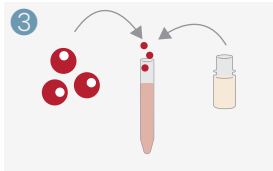
Version 1.0  
© acCELLerate GmbH (2024)



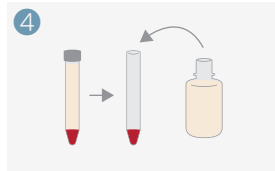
dilute the IL-2 stock solution



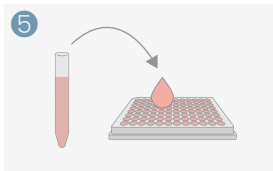
prepare sample and control concentrations



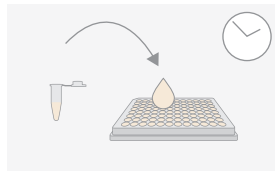
thaw cells for 2min at 37°C, dilute in 8ml recovery buffer



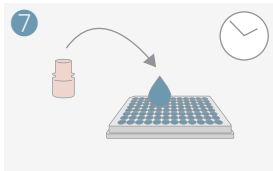
centrifuge for 5min at 400xg, resuspend in 11ml assay buffer



dispense cells 90µl/well



add 10µl of reference, sample and control to each corresponding well and incubate for 48h



add Resazurin 20 µl/well, incubate for 4h



measure Fluorescence at 540<sub>Ex</sub>/590<sub>Em</sub>

	1	2	3	4	5	6	7	8	9	10	11	12
A	C12	C10	C8	C6	C4	C2	C1	C3	C5	C7	C9	C11
B	C12	C10	C8	C6	C4	C2	C1	C3	C5	C7	C9	C11
C	C12	C10	C8	C6	C4	C2	C1	C3	C5	C7	C9	C11
D	C12	C10	C8	C6	C4	C2	C1	C3	C5	C7	C9	C11
E	C12	C10	C8	C6	C4	C2	C1	C3	C5	C7	C9	C11
F	C12	C10	C8	C6	C4	C2	C1	C3	C5	C7	C9	C11
G	C12	C10	C8	C6	C4	C2	C1	C3	C5	C7	C9	C11
H												

- blank control, no cells
- reference concentration
- sample concentration
- medium control

### day I.a: preparation of test sample and controls

To avoid edge effects, the space between the wells of the assay plate can be filled with sterile liquid (e.g. PBS).

- Equilibrate assay buffer to room temperature.
- Dilute the IL-2 reference 10-fold in assay buffer. Add 10µl stock solution to 90µl assay buffer (D1).
- For the IL-2 dilution series, add 200µl Assay Buffer L to the first microtube and add 50µl of D1 to obtain C1 of the dilution series. 1
- Perform a 2-fold dilution series of 12 concentrations for the IL-2 reference standard curve. Add 125µl of C1 to 125µl of assay buffer, mix well and continue this process up to C12.
- Prepare a 2x concentrated dilution series of your test sample in assay buffer, analogue to the IL-2 standard dilution series. 2

### day I.b: preparation of cells

Keep the cells on dry ice before thawing and process quickly.

- Equilibrate all media and buffer to 37°C.
- Thaw one vial of Assay Ready Cells in a water bath at 37°C for 2min. Prepare 8ml of recovery buffer in a 15ml centrifuge tube. Dispense the cells completely into the prepared tube. Rinse the cryovial once with 1ml recovery buffer. 3
- Centrifuge for 5min at 400xg and carefully aspirate the supernatant. Resuspend the cell pellet in 11ml of assay buffer. 4
- Dispense 90µl of the cell suspension into each well of the provided assay plate, except row A. Mix cell suspension before each pipetting step. 5
- Add 90µl assay buffer to each well in row A.
- Add 10µl of IL-2 reference (rows A-D) and sample (rows E-G) dilutions in triplicate to the respective wells as recommended in the plate layout. The plate layout has an inside-out design to avoid edge effects in relevant concentrations. 6
- Shake the plate for 30sec on an orbital shaker.
- Incubate for 48h in a humidified incubator at 37°C and 5% CO<sub>2</sub>.

### day III: resazurin viability assay

- Equilibrate resazurin solution to room temperature.
- Add 20µl of resazurin solution to each well of the assay plate and shake for 15s on an orbital shaker. 7
- Incubate for 4h in a humidified incubator at 37°C and 5% CO<sub>2</sub>.
- Shake the plate again for 15s on an orbital shaker. Afterwards measure the fluorescence at 540<sub>Ex</sub>/590<sub>Em</sub>. 8