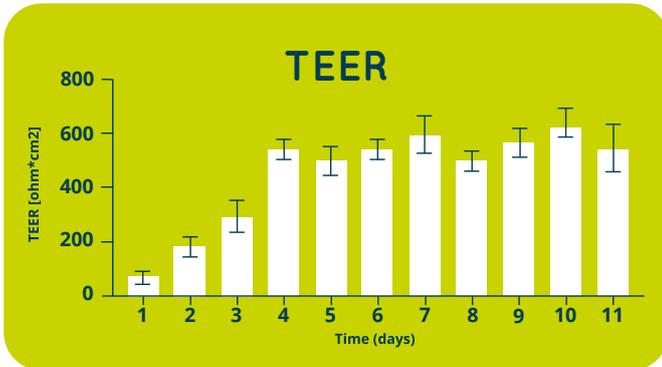
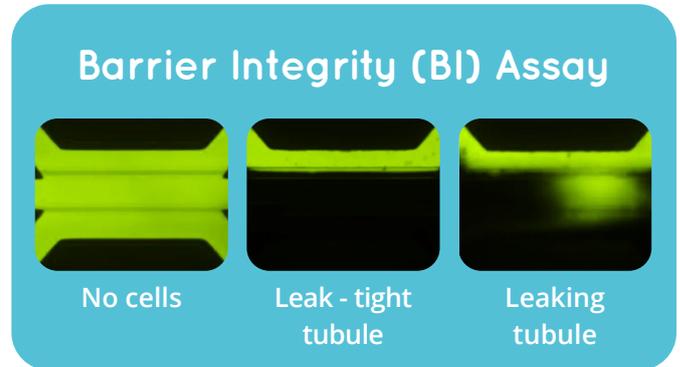


## Methods to Assess Barrier Integrity & Permeability in 3D tissue models



Measuring transepithelial or transendothelial electrical resistance (TEER) is a sensitive method to assess a tissue's barrier function. The example shows increasing TEER of Caco-2 gut tubules in the OrganoPlate® 3-lane measured by the OrganoTEER® device.



The fluorescent probe Barrier Integrity Assay measures the leakage of a fluorescent probe out of the tissue tubule. Example shows leakage of a 150 kDa FITC-dextran probe out of Caco-2 gut tubules cultured in OrganoPlate® 3-lane.

### Choose the right method for your needs

#### Your experimental needs:

- Assess integrity of barrier tissues
- Fast and label-free evaluation
- Long term time lapse measurements
- Detect subtle permeability changes\*
- Observe leakage of compounds of various molecular weights
- Visualize the nature of barrier leakage

OrganoTEER®	BI assay
✓	✓
✓	—
✓	—
✓	—
—	✓
—	✓

\*A recent study showed more sensitive and accurate observations using TEER compared to the fluorescent BI assay. Read the publication: [Gijzen L. et al.,2020](#)

