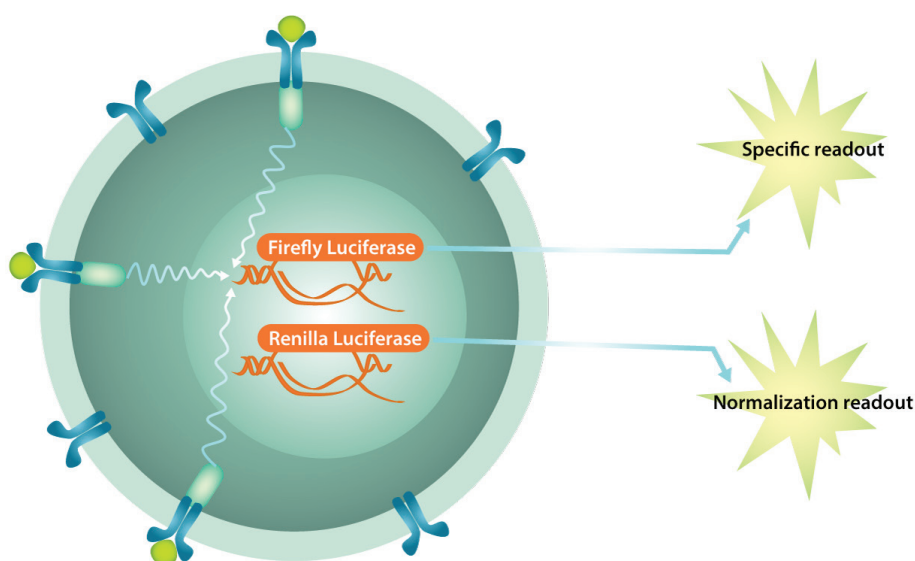


## Benefits of the *iLite*<sup>™</sup> technology

*iLite*<sup>™</sup> cell lines can be developed for most biopharmaceutical targets and allows an easy, simple and rapid test format for measurement of:

- Drug potency, i.e. drug activity
- Neutralizing antibodies (NABs)



*iLite*<sup>™</sup> cell lines are based on a dual reporter gene technology. The actual drug activity is calculated as the difference between the specific signaling through the target receptor (Firefly Luciferase) and the normalization readout (Renilla Luciferase).

### Specificity and Precision

Each *iLite*<sup>™</sup> cell line is highly specific for its target. Due to cell engineering only the target can trigger a signal through its specific cell membrane receptor, thus generating a target specific signal. Transcription of a reporter gene construct, regulating expression of Firefly Luciferase, is activated by the signal and the magnitude measured by light emission using a luminometer.

### Sensitivity

Normalization of cell counts and serum matrix effects is obtained by a second reporter gene, a Renilla Luciferase reporter gene construct, under control of a constitutive promoter. The actual drug activity is calculated as the difference between the specific readout and the normalization readout.

### Sophisticated but Simple to Perform

*iLite*<sup>™</sup> assays may be based on a sophisticated technology but yet easy to perform:

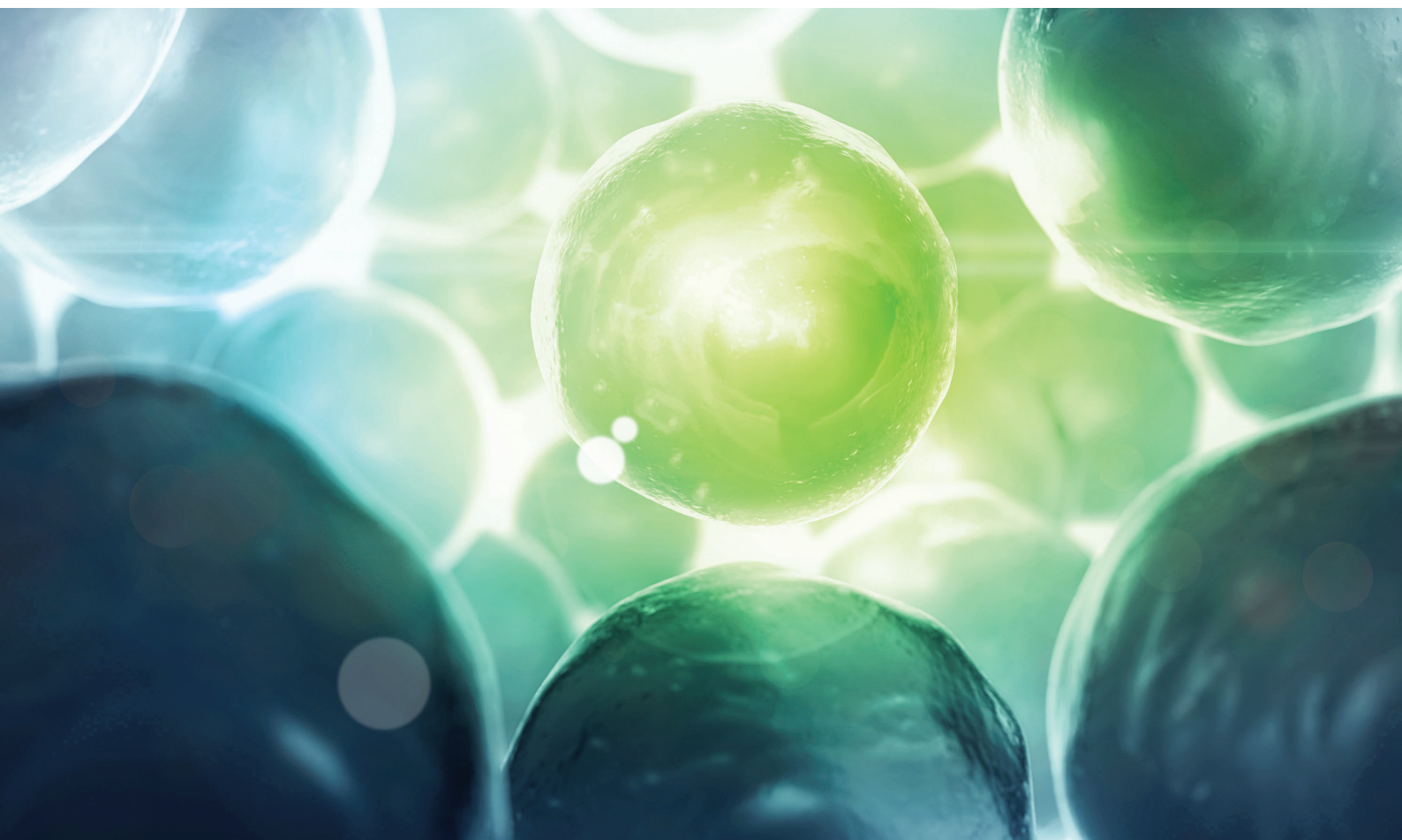
- *iLite*<sup>™</sup> Assay Ready Cells do not require culturing but must be used directly from the freezer.
- All assays are run in standard 96 well format; some assays can also be applied to 384 well format. No washing steps and as easy as running an ELISA.
- All assays can be performed within one workday.

Doc No: E-149-GB00, October 2015

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Features	Benefits
<i>iLite™</i> reporter gene cells delivered as <b>ready to use frozen cells</b> . Same day results (from 2 hours).	<b>Fast and convenient use</b>
<b>Potency</b> and <b>neutralizing</b> antibody assays using a single reporter gene cell line.	<b>Two assays using a single reporter gene cell line</b>
Direct comparisons between biosimilars and originator/innovator drugs in <b>one single <i>iLite™</i> assay</b> .	<b>Standardization and economy of costs</b>
Unrivalled <b>specificity</b> to distinguish between structurally related drugs that share common or related signal transduction pathways.	
A <b>single assay</b> for structurally diverse drugs in the same class (such as TNF-alpha antagonists).	
<b>Normalization gene</b> , expressing Renilla Luciferase, allows normalization for matrix effect as well as cell counts.	<b>Eliminates matrix effect</b>



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