

# Retinoid Receptor Transactivation Assay

## Références/ References

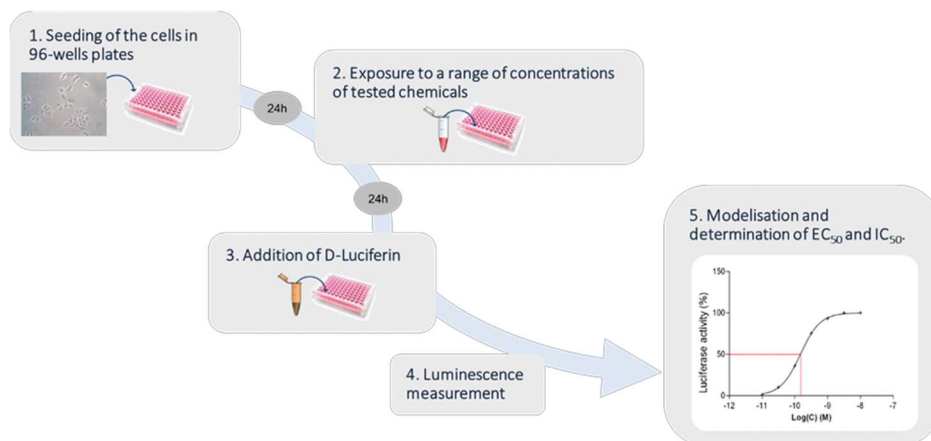
Reporter cell lines are useful tools for monitoring biological activity of nuclear receptor ligands.  
Balaguer P, Boussioux AM, Demirpence E, Nicolas JC.  
Luminescence 16 (2001) 153-158.

## Résumé de la méthode/ Summary of the method

Transactivation d'un récepteur nucléaire, utilisant une ligne cellulaire humaine stablement transfectée (nécessitant la signature d'un Material Transfert Agreement)

*Nuclear receptor transactivation using a stably transfected human cell line (available via an Material Transfert Agreement)*

Readout : luminescence



## Équipement nécessaire/ Necessary equipment

*culture cellulaire:*

- Equipment standard de culture cellulaire (e.g. incubateur, hotte flux laminaire) / *standard cell culture equipment (e.g. incubator, laminar flow hood)*
- 96-wells white opaque culture plates (e.g. Greiner bio-one 655083-905, CellStar; Dutscher, Brumath, France)
- Cell cytotoxicity measurement (e.g. Alamar blue, or Neutral red).

- DMEM/F-12 without phenol red (Gibco 21041-025) Test medium - 5% DCC-treated FBS

- 1% v/v penicillin/streptomycin (Gibco 15070-63)

Culture medium	<ul style="list-style-type: none"> <li>- DMEM/F-12 with phenol red (Gibco 31331-028)</li> <li>- 10% FBS (Eurobio CVFSVF00)</li> <li>- 1% v/v penicillin/streptomycin (Gibco 15070-63)</li> <li>- 1 mg/mL geneticin (Invivogen ant-gn)</li> </ul>
Test medium	<ul style="list-style-type: none"> <li>- DMEM/F-12 without phenol red (Gibco 21041-025)</li> <li>- 5% DCC-treated FBS</li> <li>- 1% v/v penicillin/streptomycin (Gibco 15070-63)</li> </ul>
Luminescence medium	<ul style="list-style-type: none"> <li>- DMEM/F-12 without phenol red (Gibco 21041-025)</li> <li>- 5% DCC-treated FBS</li> <li>- 1% v/v penicillin/streptomycin (Gibco 15070-63)</li> <li>- 0.3 mM D-luciferin (Perkin Elmer 122799)</li> </ul>

## Luminomètre / Luminometer

Exemple : MicroBeta Wallac luminometer (Perkin-Elmer). Lecture de microplaques, par le dessus.

La lecture est optimale 20 minutes après l'addition du milieu de luminescence.

*Reading is optimal 20 minutes after the addition of the luminescence medium.*