🌐 Luciferase Activity Assay

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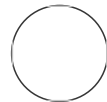[1]Department of Health Sciences, University of Milan, Milan, Italy

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ABSTRACT

Luciferase activity assay on cell extracts using Veritas (Turner) luminometer.

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1   Lysate the cell using 1X Luciferase Cell Culture LysisReagent (Cat. E1531, Promega) following

manufacturer instruction;

2   prepare Reaction Buffer (100μl for each sample): 500 μM luciferin (Cat E160E, Promega), 20 mM Tricine, 0.1 mM EDTA, 1.07 mM (MgCO3)4·Mg(OH)2, 2.67 mM MgSO4 in H2O, pH 7.8, with 33.3 mM DTT and 530 mM ATP.

3   put 20 μl/well of cell lysate into the white plate (Cat 3912, Corning);

4   turn on the luminometer (Veritas, Turner);

5   let the samples' plate and Reaction Buffer equilibrate at room temperature; Insert the plate into the instrument and prime the tube with the Reaction Buffer;

6   run the protocol on the luminometer (injection volume 100μl, delay before measurement 0s, integration time 10s)