

# Certificate of Analysis

(Last updated: April 24, 2018)



**GPC laboratory**  
Genome Program and Control

Product Name: THP-G8  
Catalog Number: GP-H01-P15  
Lot Number: 170809III31/25

TEST	RESULT
• Growth properties	Suspension
• Morphology	Lymphoblast-like
• Test for mycoplasma contamination Real-time PCR (Mycoseq Mycoplasma Detection Kit)	Negative
• Sterility test (BacT/ALERT 3D) iAST bottle (aerobic) at 32.5°C iNST bottle (anaerobic) at 32.5°C	Negative Negative
• Cell viability (after freeze-thaw)	Test1: 91.1 % Test2: 94.0 % Test3: 95.0 %

## Quality control testing (Refer to OECD TG442E, In vitro skin sensitisation: IL-8 Luc assay)

- For testing, THP-G8 cells are seeded at a density of 2 to 5×10<sup>5</sup> cells/mL, and pre-cultured in culture flasks for 48 to 96 hours. On the day of the test, cells harvested from the culture flask are washed with RPMI-1640 containing 10% FBS without any antibiotics, and then, resuspended with RPMI-1640 containing 10% FBS without any antibiotics at 1×10<sup>6</sup> cells/mL.
- Luminescence is measured using a 96-well microplate luminometer, Phelios (ATTO, Tokyo, Japan), equipped with optical filters.
- 100µL of pre-warmed Tripluc® Luciferase assay reagent is transferred to each well of the plate containing the cell suspension treated with or without chemical.
- Bioluminescence is measured for 3 sec each in the absence (F0) and presence (F1, 600nm long pass filter) of the optical filter.

## Results

Positive control: 4-NBB (4-nitrobenzyl bromide)

Negative control: LA (lactic acid)

(n=4, mean±SD)

Chemical concentration (dilution)	0	4-NBB (20 mg/mL)			LA (20 mg/mL)		
		1/8,192	1/4,096	1/2,048	1/8,192	1/4,096	1/2,048
IL8LA	4,428±303	21,425±1,470	28,429±1,029	287±31	4,282±133	3,970±311	2,860±219
GAPLA	6,732±128	6,097±342	5,710±323	1,070±104	6,235±269	6,228±509	6,004±242
nIL8LA	0.658±0.043	3.521±0.029	4.986±0.235	0.273±0.057	0.687±0.022	0.644±0.101	0.477±0.046
Inh-GAPLA	1.000±0.019	0.906±0.051	0.848±0.048	0.159±0.015	0.926±0.040	0.925±0.076	0.892±0.036
Ind-IL8LA	1.000±0.065	5.352±0.440	7.579±0.357	0.415±0.087	1.045±0.033	0.978±0.153	0.725±0.070

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