CERTIFICATE OF ANALYSIS

Product Information

Product Name	HEK293/CRE-Luc/GLP1R Stable Cell Line
Cat. No.	M00562
Lot No.	B80061710
Host Cell:	HEK293
Target Gene:	GLP1R
Quantity:	2 vials of frozen cells
Shipping Condition:	Dry Ice
Recommended Storage Condition:	Liquid Nitrogen

Stable Cell Line Information

Recommended Cell Culture Medium: DMEM + 10% FBS + 400 μg/ml G418 + 100 μg/ml Hygromycin B

Freeze Medium: 90%FBS, 10% (V/V) DMSO

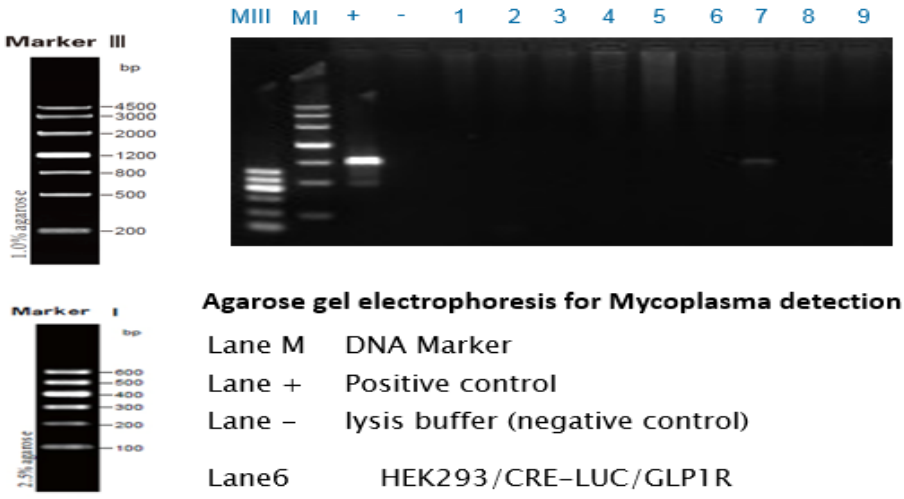
Application: Functional assay for HEK293/CRE-LUC/GLP1R

Note： The cells should be cultured in cell culture medium without antibiotics first for about 3-4 days after the cell thawing. The antibiotics (G418 and Hygromycin B) will be used when the cells recover.

Test Item	Specification	Result
Mycoplasma 160	Negative.	Negative.，Appendix 1
Functional assay	Luciferase assay	EC_{50}=1.44 nM

Appendix

Appendix 1: Mycoplasma 160



Agarose gel electrophoresis for Mycoplasma detection

Lane M DNA Marker

Lane + Positive control

Lane – lysis buffer (negative control)

Lane6 HEK293/CRE-LUC/GLP1R

Appendix 2 : Luciferase assay

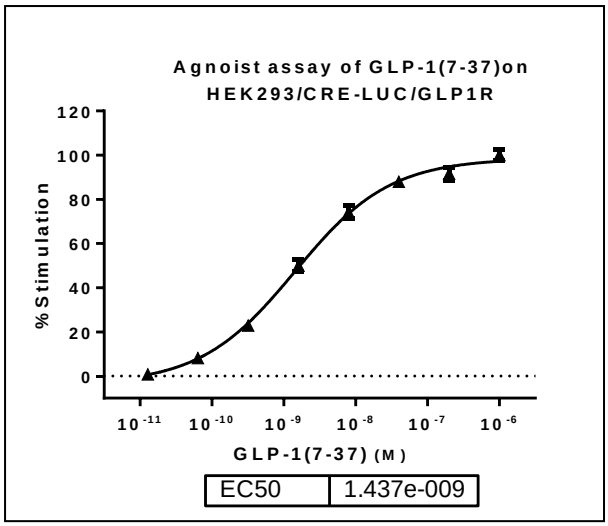


Figure 2: GLP-1(7-37)-induced concentration-dependent stimulation of intracellular cAMP (Luciferase reportor) in HEK293/CRE-LUC/GLP1R cells. After stimulation with GLP1R receptor agonist GLP-1(7-37), the cells are checked with One-Glo™ Luciferase Assay System and the relative luminescence units (RLU) were recorded on PheraStar. The RLU were plotted against the log of the cumulative doses of GLP-1(7-37) (Mean ± SD, n = 4). The EC50 of GLP-1(7-37) on GLP1R co-expressing with CRE-LUC in HEK293 cells was 1.44 nM. The S/B of GLP-1(7-37) on GLP1R co-expressing with CRE-LUC in HEK293 cells was 42 .

Caution

For research use only. Not intended for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by: Date: 10/30/2017

Department of Biologics Development Director