

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name	CHO-K1/5-HT4/Gα15
Cat. No.	M00444
Lot No.	B80021801
Host Cell:	CHO-K1
Target Gene:	5-HT4
Quantity:	2 vials of frozen cells,
Shipping Condition:	Dry Ice
Recommended Storage Condition:	Liquid Nitrogen

### Stable Cell Line Information

**Recommended Cell Culture Medium:** F12 + 10% FBS + 400 µg/ml G418, 200 µg/ml HygromycinB

**Freeze Medium:** 45%FBS, 45%F12, 10% (V/V) DMSO

**Application:** Functional assay for CHO-K1/5-HT4/Gα15

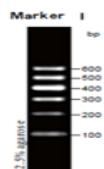
Test Item	Specification	Result
Mycoplasma 160	Negative.	Negative., Appendix 1
Functional assay	Calcium assay	EC <sub>50</sub> = 2.52 nM

### Appendix

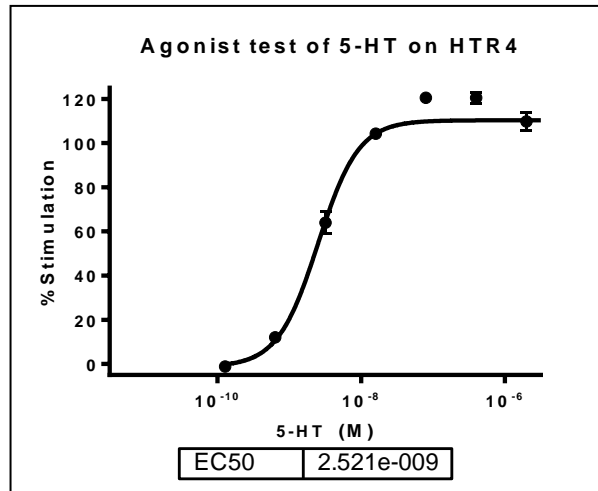
#### Appendix 1: Mycoplasma 160



#### Agarose gel electrophoresis for Mycoplasma detection



- Lane M DNA Marker
- Lane + Positive control
- Lane - lysis buffer (negative control)
- Lane 26 CHO-K1/HTR4(B80021801)

**Appendix 2 : Calcium assay**


**Figure 2.** 5-HT-induced concentration-dependent stimulation of intracellular calcium mobilization in CHO-K1/5-HT4/G $\alpha_{15}$  and CHO-K1/G $\alpha_{15}$  cells. The cells were loaded with Calcium-4 prior to stimulation with a 5-HT4 receptor agonist 5-HT. The intracellular calcium change was measured by FLIPR. The %Stimulation were plotted against the log of the cumulative doses (5-fold dilution) of Histamine (Mean  $\pm$  SD, n = 2). The EC<sub>50</sub> of 5-HT on 5-HT4 co-expressing with Gqi5 in CHO-K1 cells was 2.52 nM. The S/B of 5-HT on 5-HT4 co-expressing with G $\alpha_{15}$  in CHO-K1 cells was 30.

**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: 01/19/2018  
 Department of Biologics Development Director