

PC12 Tet-On[®] Cell Line

Catalog No.	Amount	Lot Number
630912 (Not sold separately)	1 ml	Specified on product label.

Description

PC12 Tet-On is a rat adrenal pheochromocytoma-derived cell line that expresses the tetracycline-regulated transactivator Tet-On (1). Inducible expression of any gene can be achieved by transfecting or transducing this cell line with a vector containing your gene of interest under the control of a tetracycline-responsive promoter. Expression is induced by the addition of doxycycline (Dox) to the culture medium.

Package Contents

- 1 ml PC12 Tet-On Cell Line (2.0 x 10⁶ cells/tube)

Storage Conditions

- Liquid nitrogen vapor phase

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Storage Medium

- 70% Tet System Approved FBS, 20% DMEM, and 10% DMSO

Shipping Conditions

- Dry ice (-70°C)

Product User Manuals

User manuals for Clontech products are available for download at www.clontech.com/manuals.

The following user manuals apply to this product:

- Tet-Off[®] and Tet-On[®] Gene Expression Systems User Manual (PT3001-1)
- Tet Cell Lines Protocol-at-a-Glance (PT3001-2)

Cell Type Information

PC12 Tet-On is a rat adrenal pheochromocytoma-derived cell line stably transfected with pTet-On (pUHD17-1neo). This cell line is G418 resistant.

Recommended Cell Culture Medium

Grow the cells in 85% Dulbecco's Modified Eagle's Medium (DMEM) high glucose (4.5 g/L), 10% horse serum, 5% Tet System Approved Fetal Bovine Serum (FBS), 4 mM L-glutamine, 100 units/ml penicillin, 100 µg/ml streptomycin, and 200 µg/ml G418, in the presence of 10% CO₂.

References

1. Gossen, M. & Bujard, H. (1992) *Proc. Natl. Acad. Sci. USA* **89**(12):5547–5551.

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Quality Control Data

Functional Tests

PC12 Tet-On Cells were transiently transfected by electroporation with pTRE2-Luc. Luciferase activity in the presence and absence of 1 µg/ml doxycycline (Cat. No. 631311) was measured 48 hr later as described in the Tet Systems User Manual. Induction was observed to be at least 80-fold when cells were grown in medium containing Clontech's Tet System Approved FBS.

Mycoplasma Contamination Test

This lot of cells has been tested and found to be free of mycoplasma contamination.

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