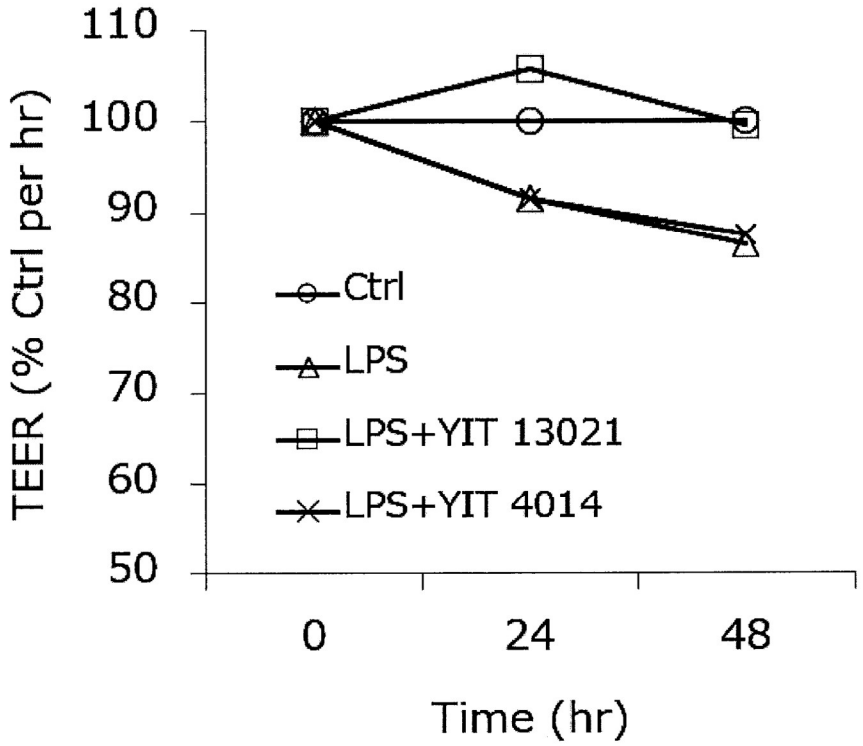
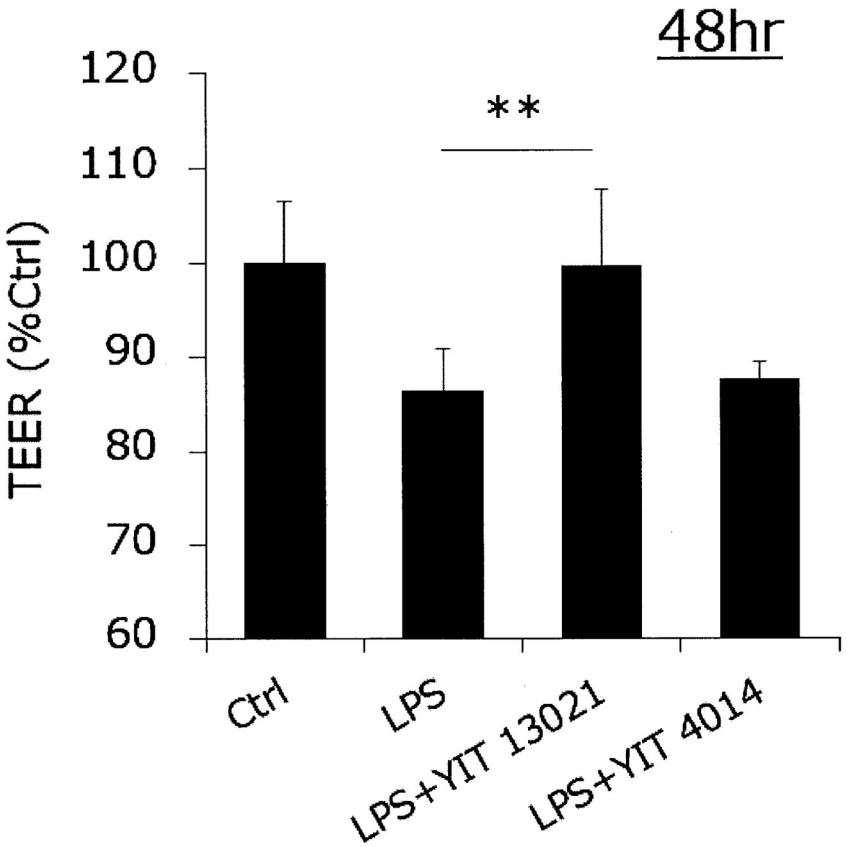
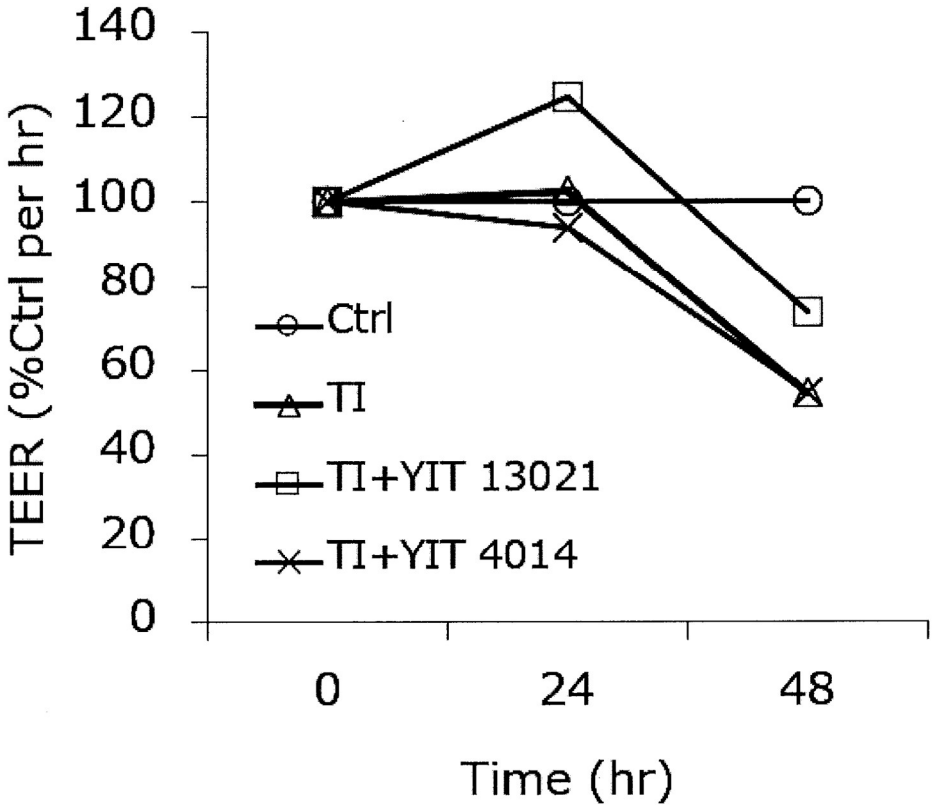
[Fig. 1]



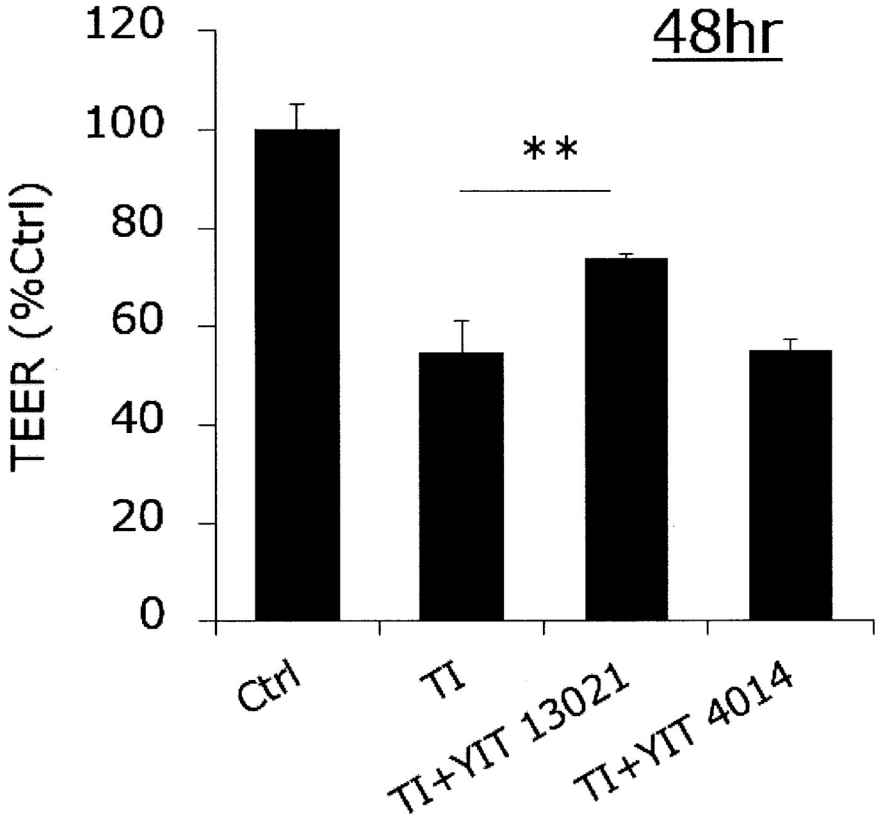
[Fig. 2]



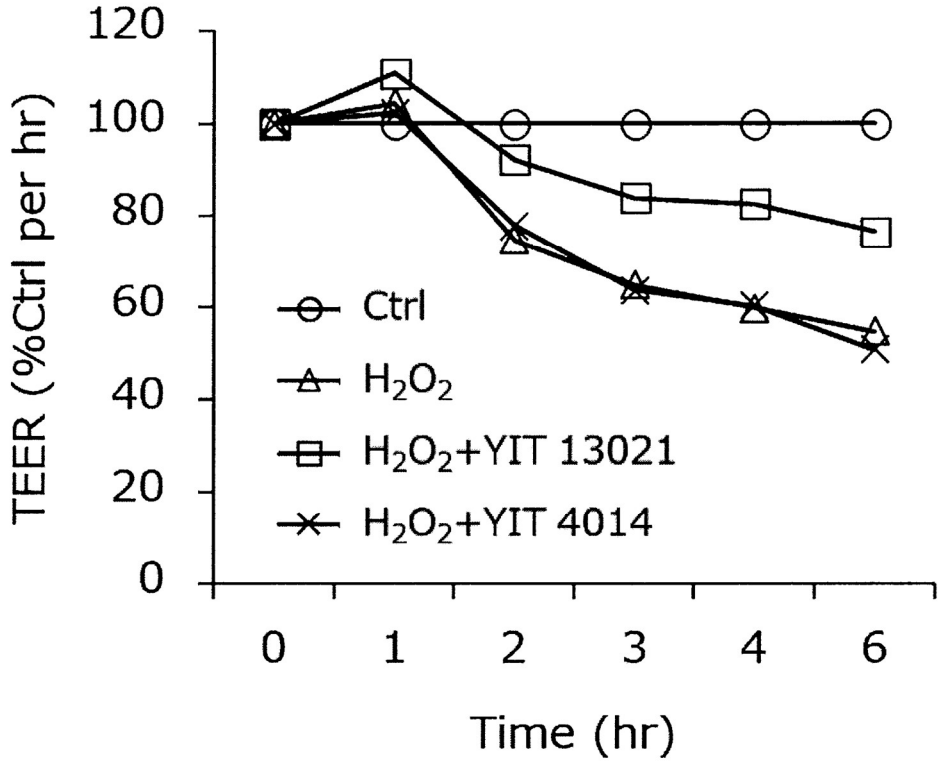
[Fig. 3]


140
120
100
80
60
40
20
0
TEER (%Ctrl per hr)
Ctrl
TI
TI+YIT 13021
TI+YIT 4014
0
24
48
Time (hr)

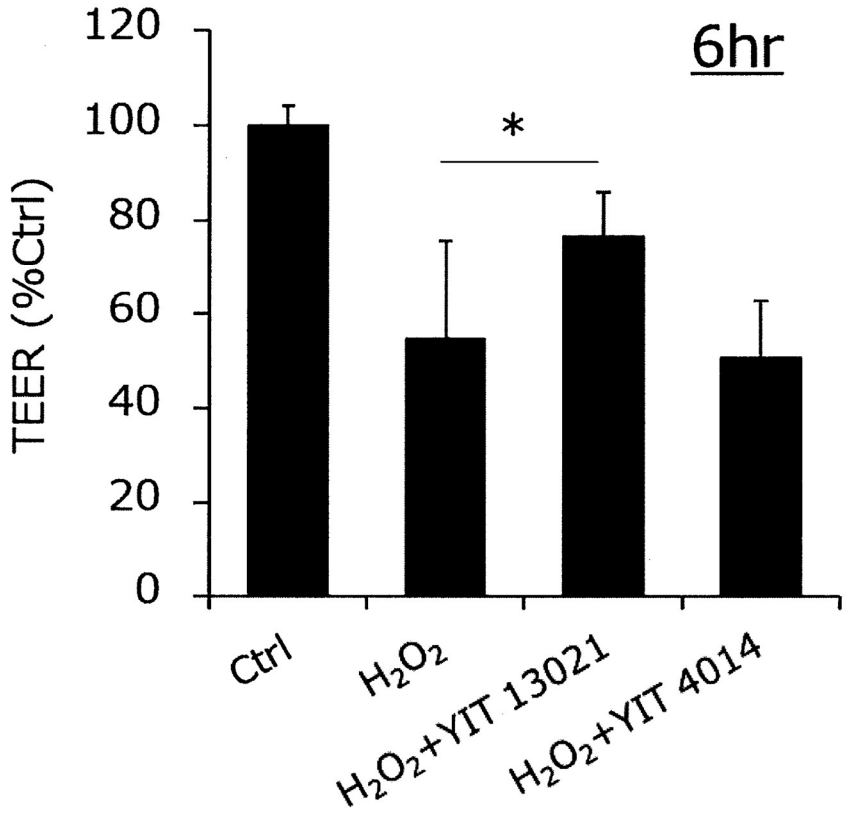
[Fig. 4]


48hr
120
100
80
60
40
20
0
TEER (%Ctrl)
**
Ctrl
TI
TI+YIT 13021
TI+YIT 4014

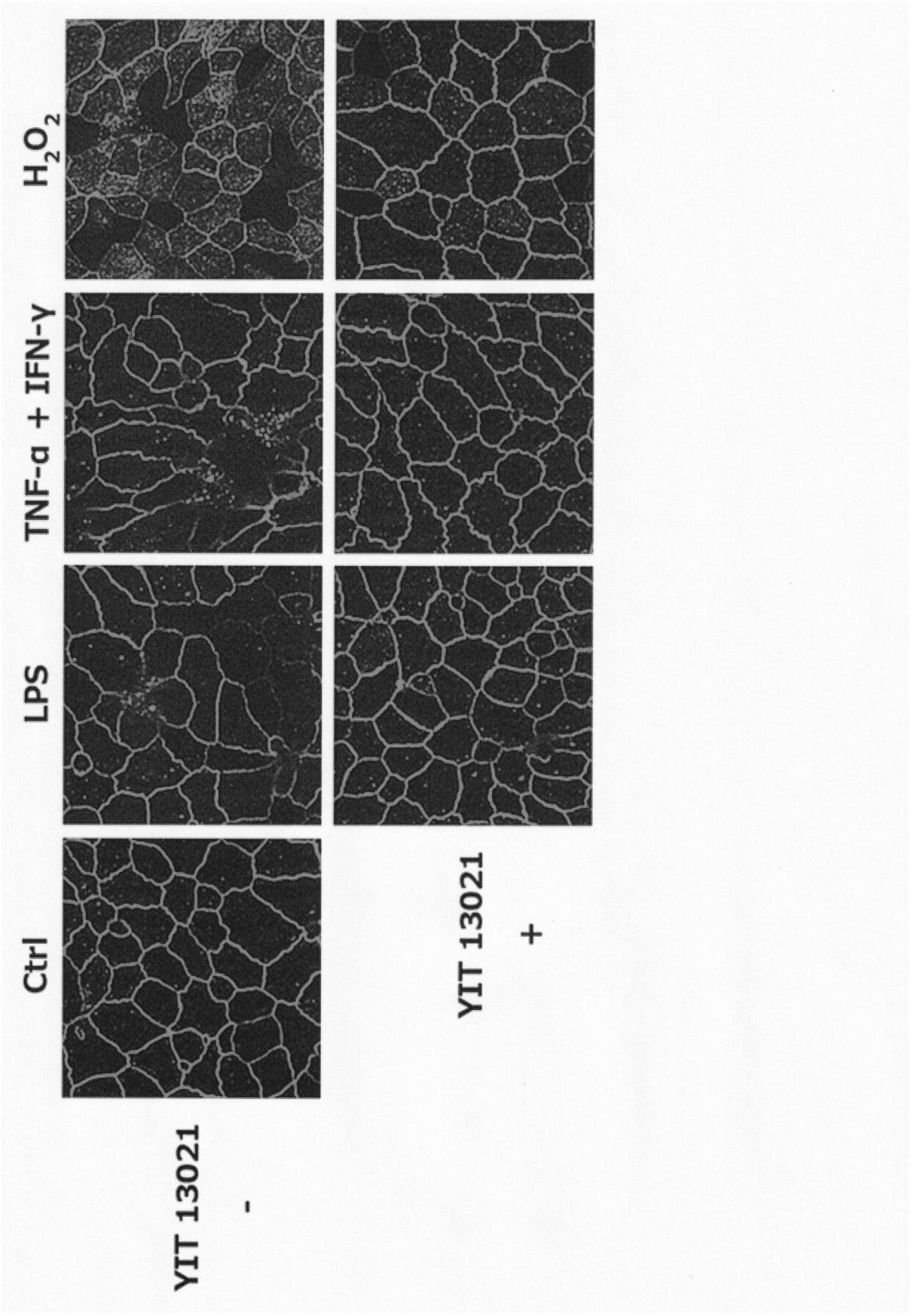
[Fig. 5]


120
100
80
60
40
20
0
TEER (%Ctrl per hr)
Ctrl
H2O2
H2O2+YIT 13021
H2O2+YIT 4014
0
1
2
3
4
6
Time (hr)

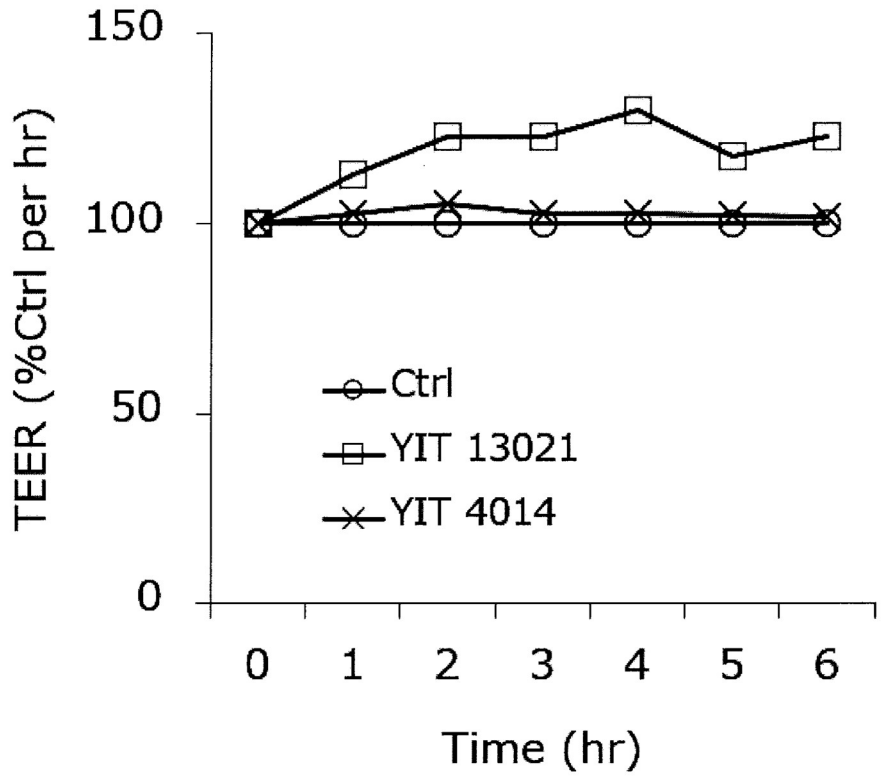
[Fig. 6]


6hr
120
100
80
60
40
20
0
TEER (%Ctrl)
*
Ctrl
H2O2
H2O2+YIT 13021
H2O2+YIT 4014

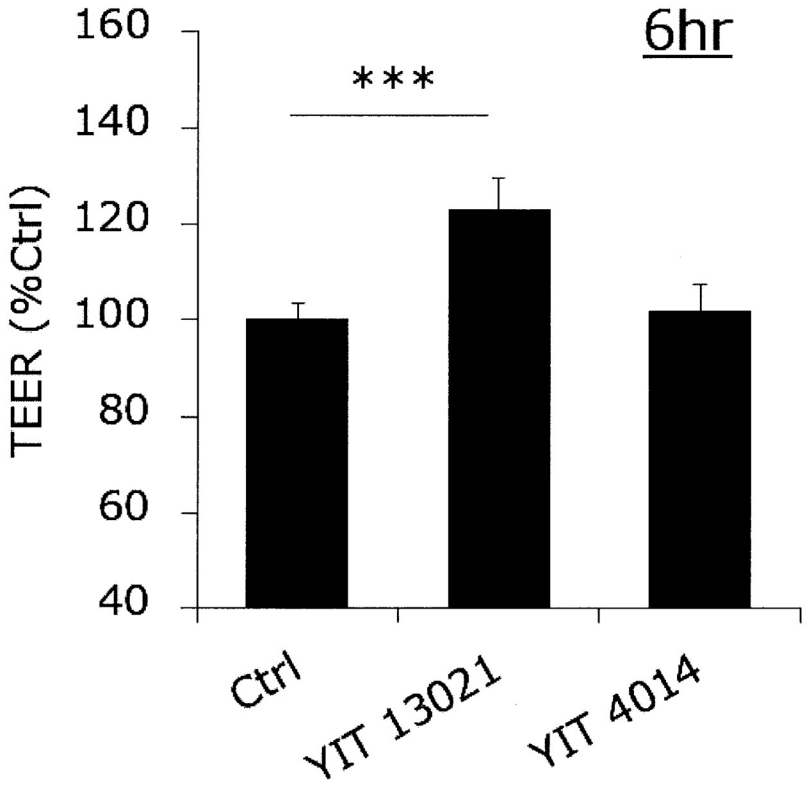
[Fig. 7]



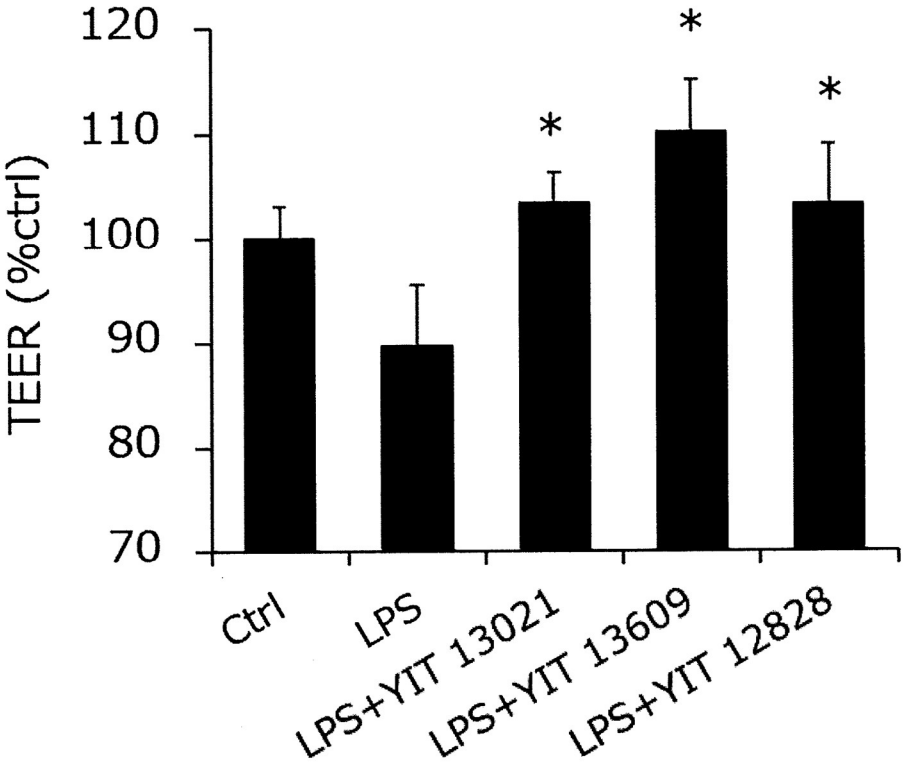
[Fig. 8]


150
100
50
0
TEER (%Ctrl per hr)
Ctrl
YIT 13021
YIT 4014
0
1
2
3
4
5
6
Time (hr)

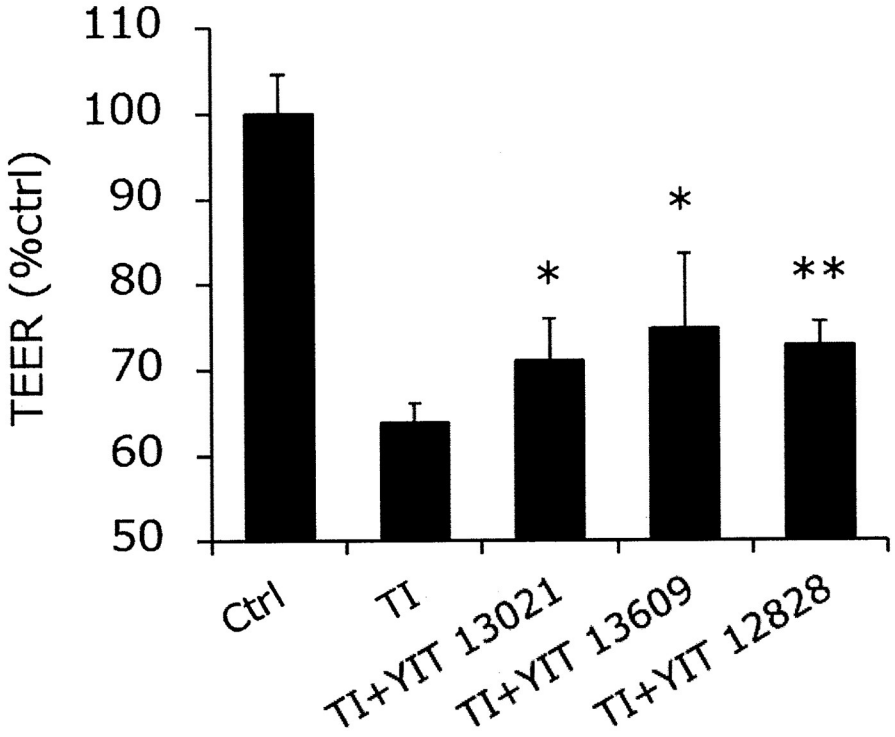
[Fig. 9]


6hr
***
160
140
120
100
80
60
40
TEER (%Ctrl)
Ctrl
YIT 13021
YIT 4014

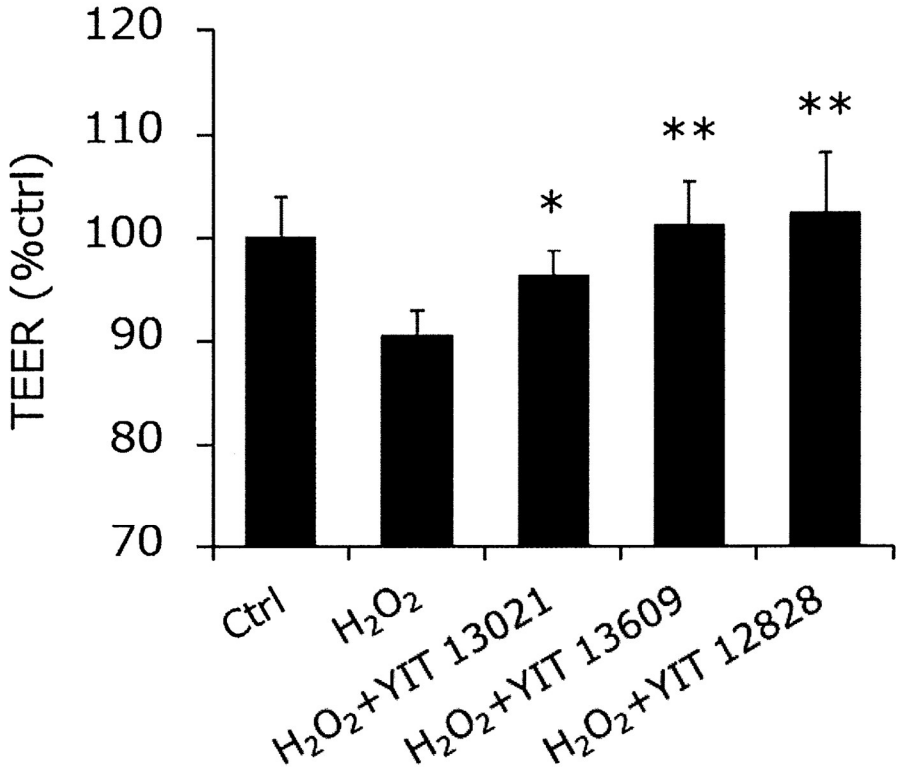
[Fig. 10]


120
110
100
90
80
70
TEER (%ctrl)
*
*
*
Ctrl
LPS
LPS+YIT 13021
LPS+YIT 13609
LPS+YIT 12828

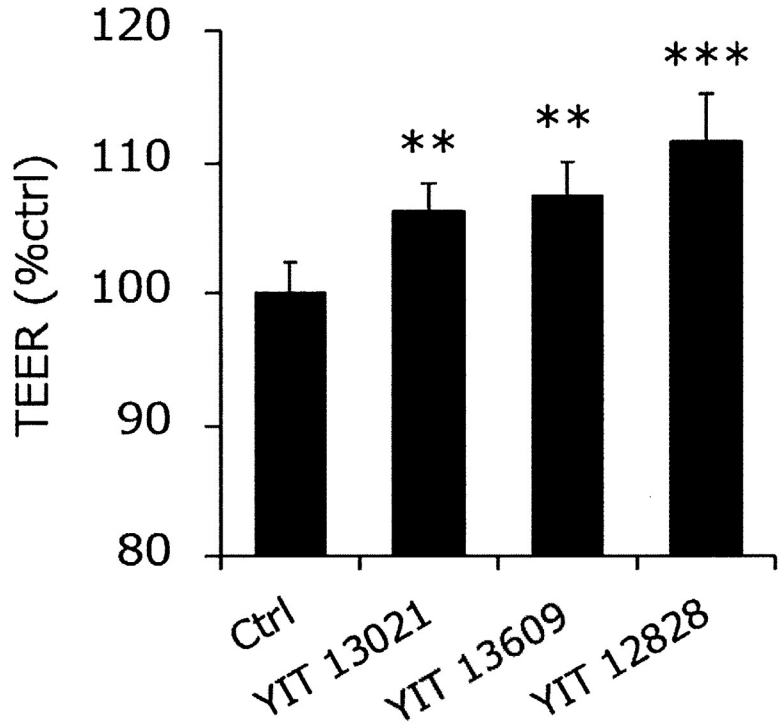
[Fig. 11]


110
100
90
80
70
60
50
TEER (%ctrl)
*
*
**
Ctrl
TI
TI+YIT 13021
TI+YIT 13609
TI+YIT 12828

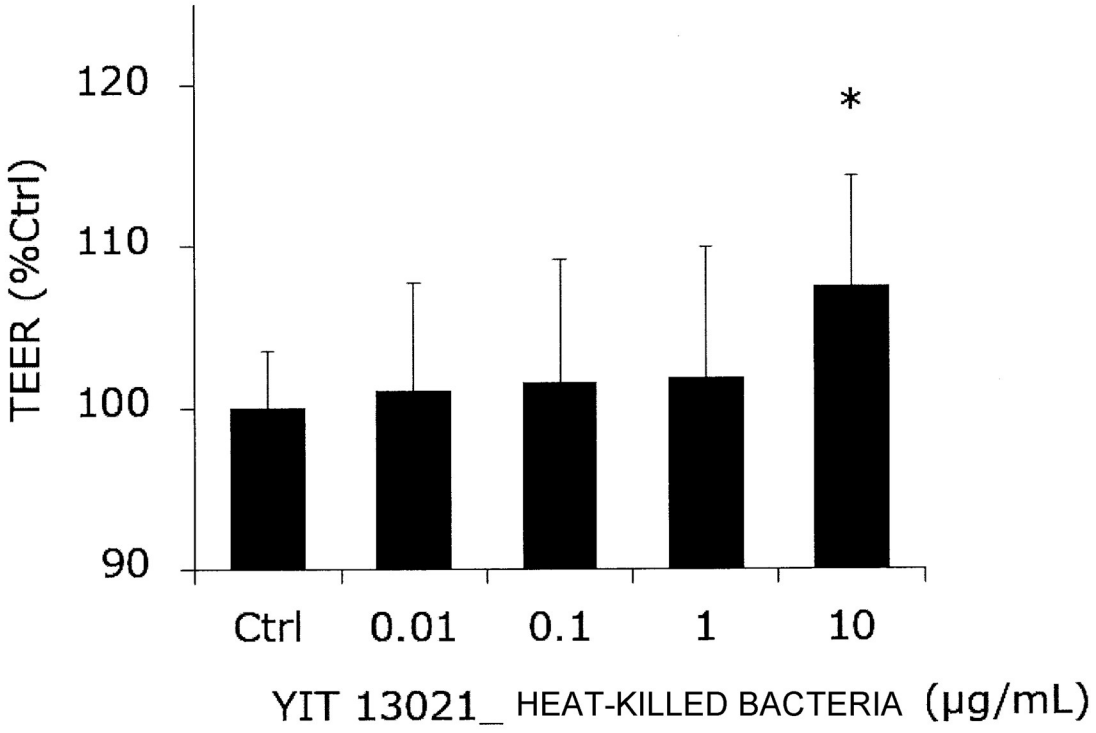
[Fig. 12]


120
110
100
90
80
70
TEER (%ctrl)
*
**
**
Ctrl
H2O2
H2O2+YIT 13021
H2O2+YIT 13609
H2O2+YIT 12828

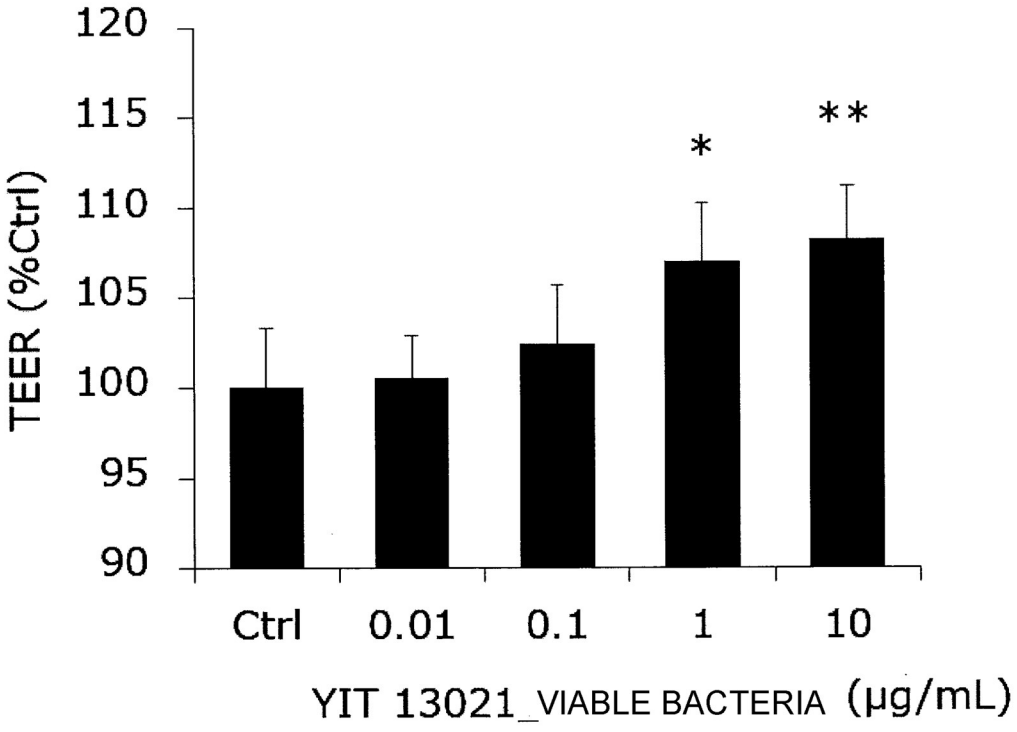
[Fig. 13]


120
110
100
90
80
TEER (%ctrl)
**
**
***
Ctrl
YIT 13021
YIT 13609
YIT 12828

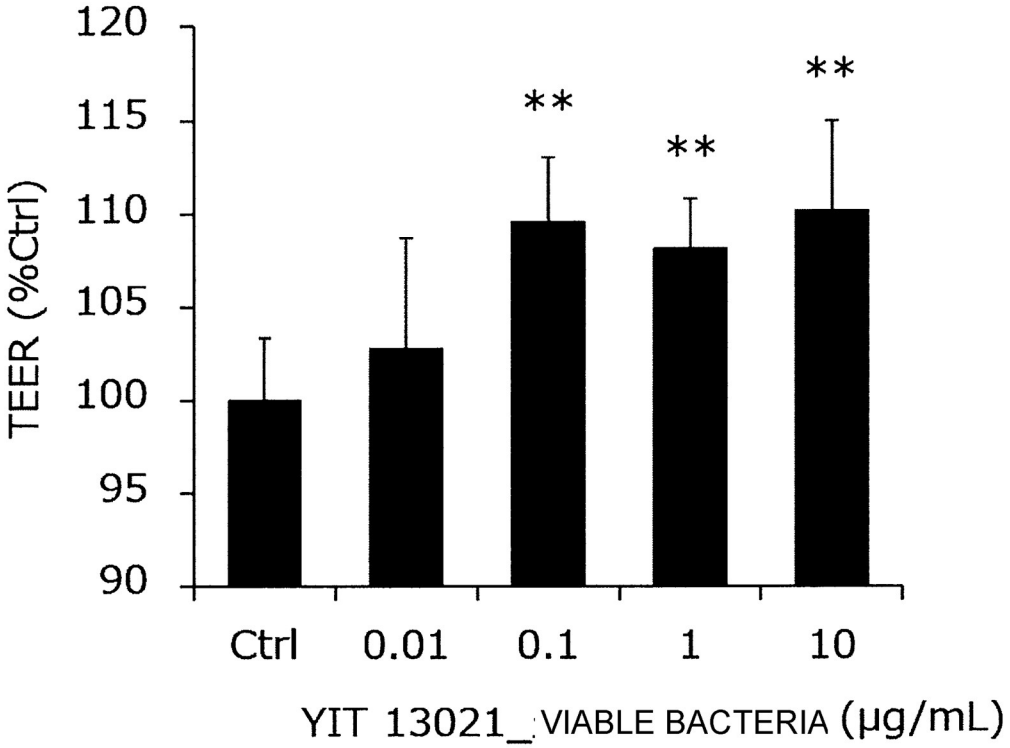
[Fig. 14]


120
110
100
90
TEER (%Ctrl)
*
Ctrl
0.01
0.1
1
10
YIT 13021_ HEAT-KILLED BACTERIA (μg/mL)

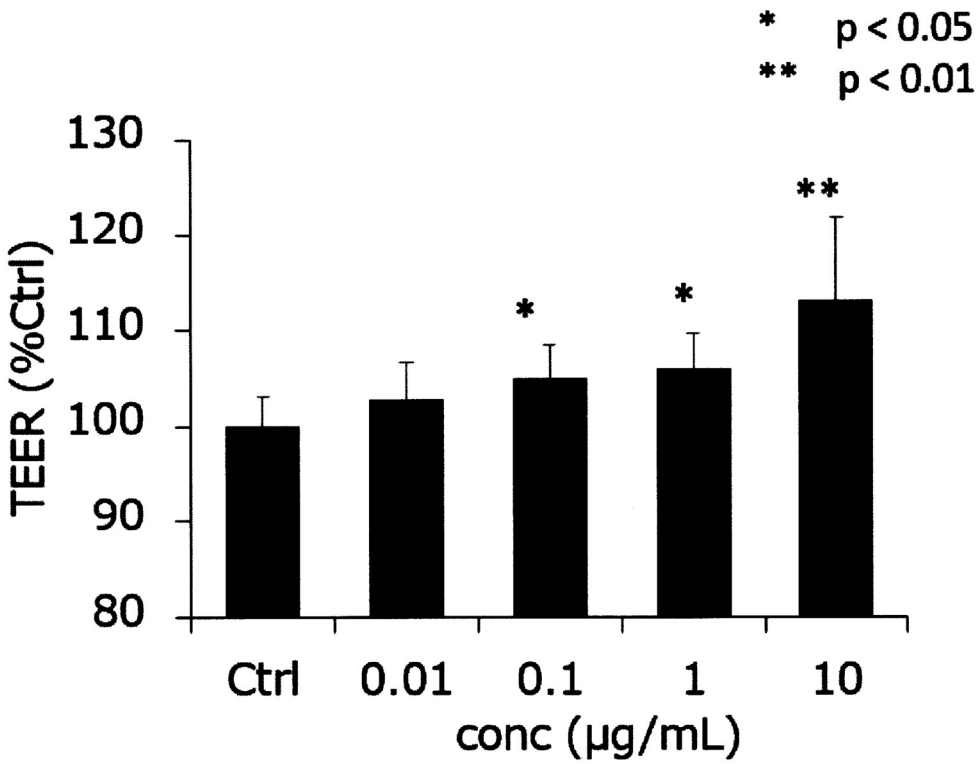
[Fig. 15]


120
115
110
105
100
95
90
TEER (%Ctrl)
*
**
Ctrl
0.01
0.1
1
10
YIT 13021_VIABLE BACTERIA (μg/mL)

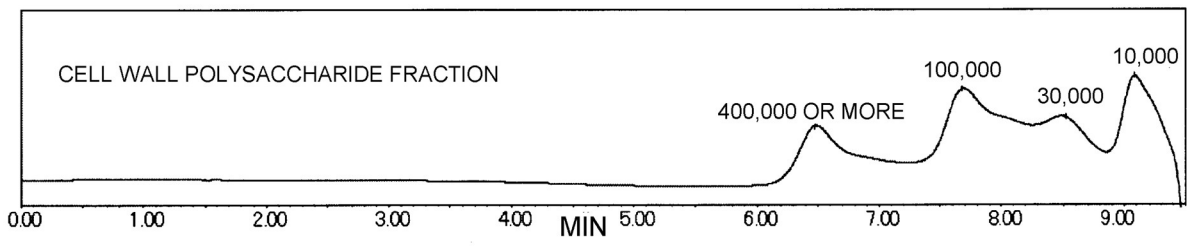
[Fig. 16]


120
115
110
105
100
95
90
TEER (%Ctrl)
**
**
**
Ctrl
0.01
0.1
1
10
YIT 13021_ VIABLE BACTERIA (μg/mL)

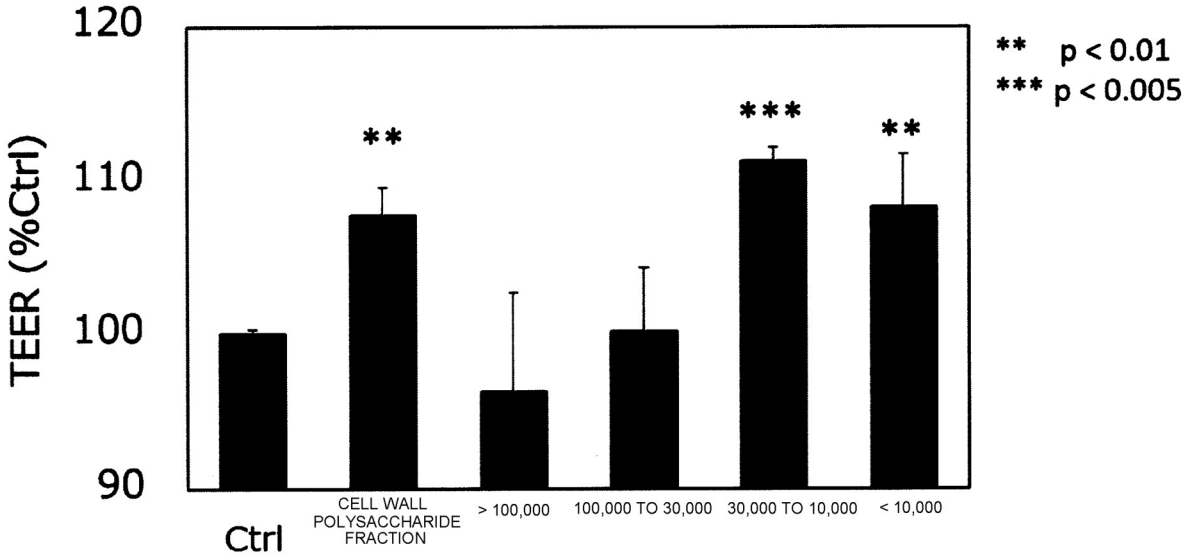
[Fig. 17]


* p < 0.05
** p < 0.01
130
120
110
100
90
80
TEER (%Ctrl)
*
*
**
Ctrl
0.01
0.1
1
10
conc (μg/mL)

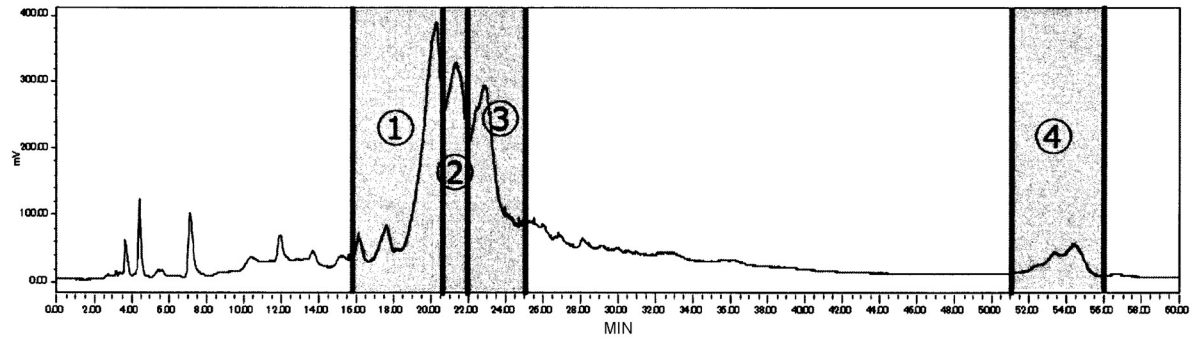
[Fig. 18]



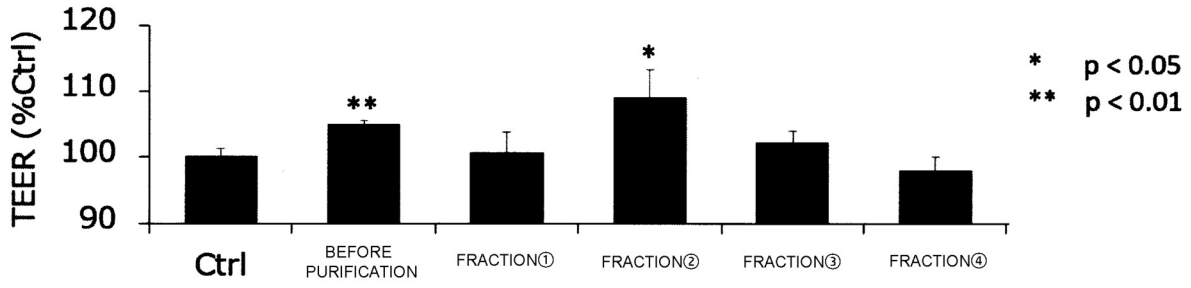
[Fig. 19]



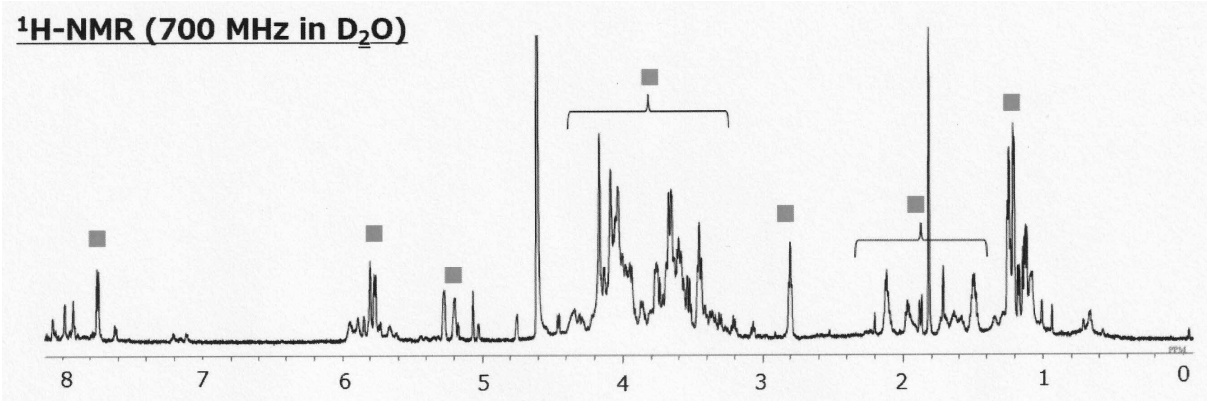
[Fig. 20]



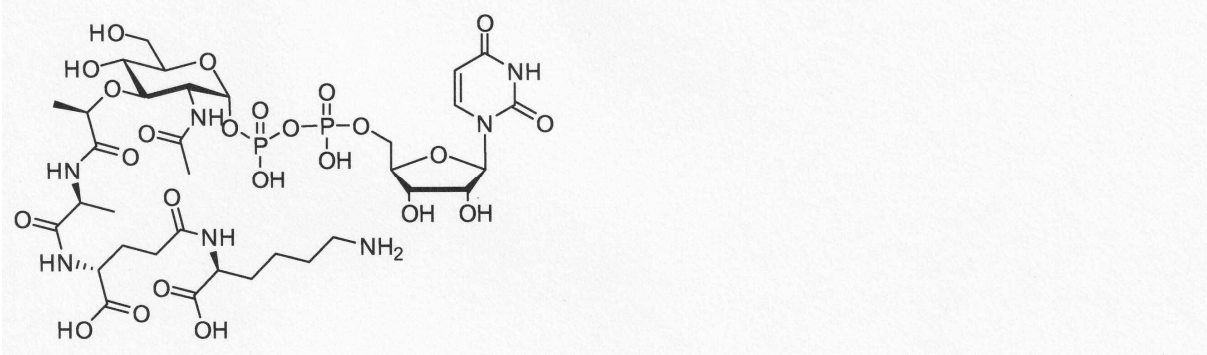
[Fig. 21]



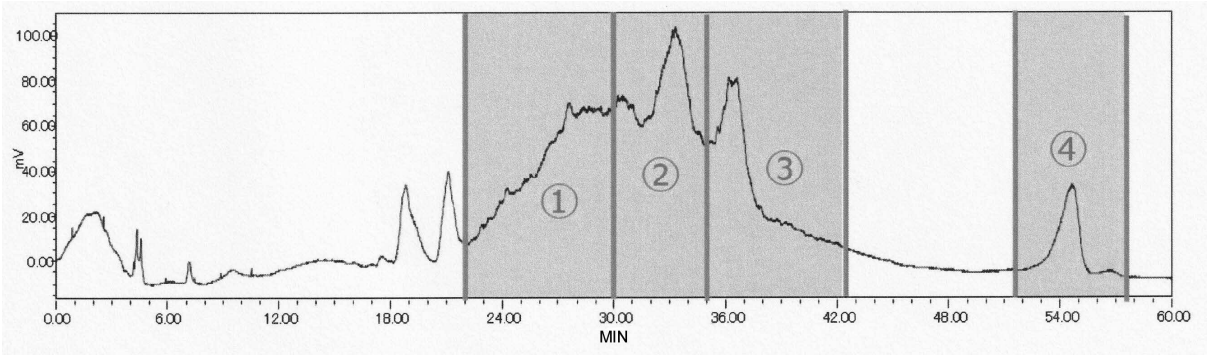
[Fig. 22]



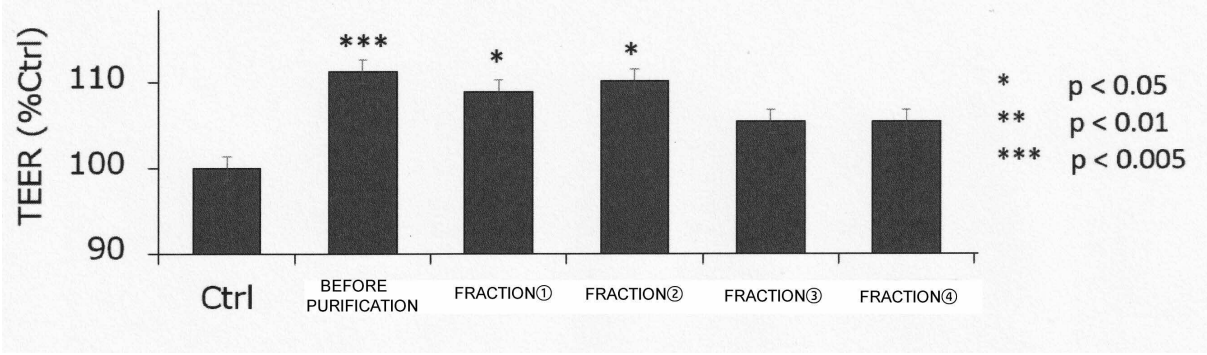
[Fig. 23]



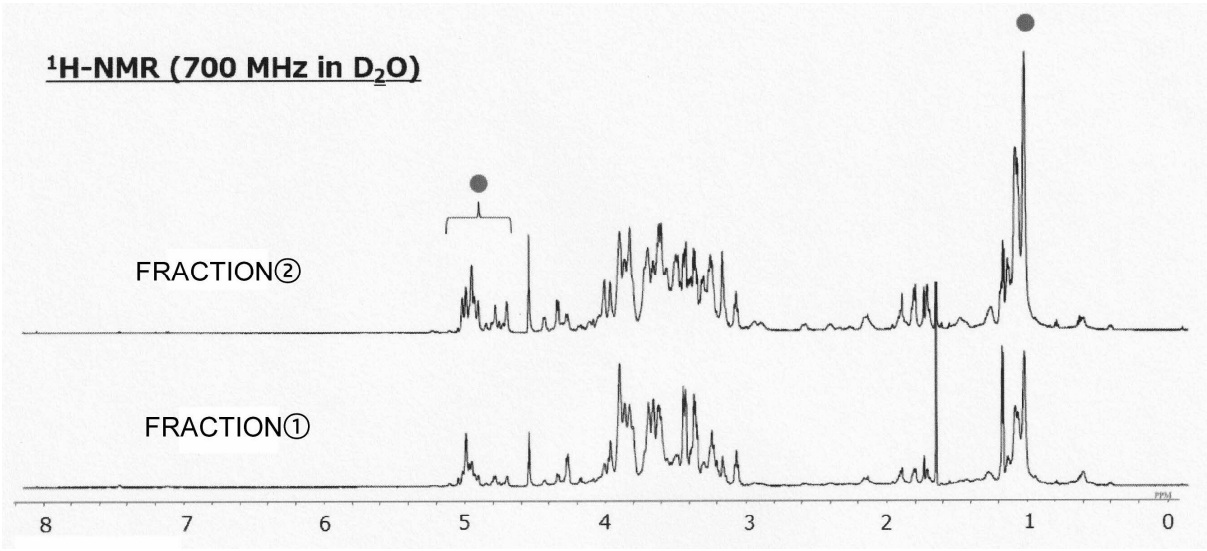
[Fig. 24]



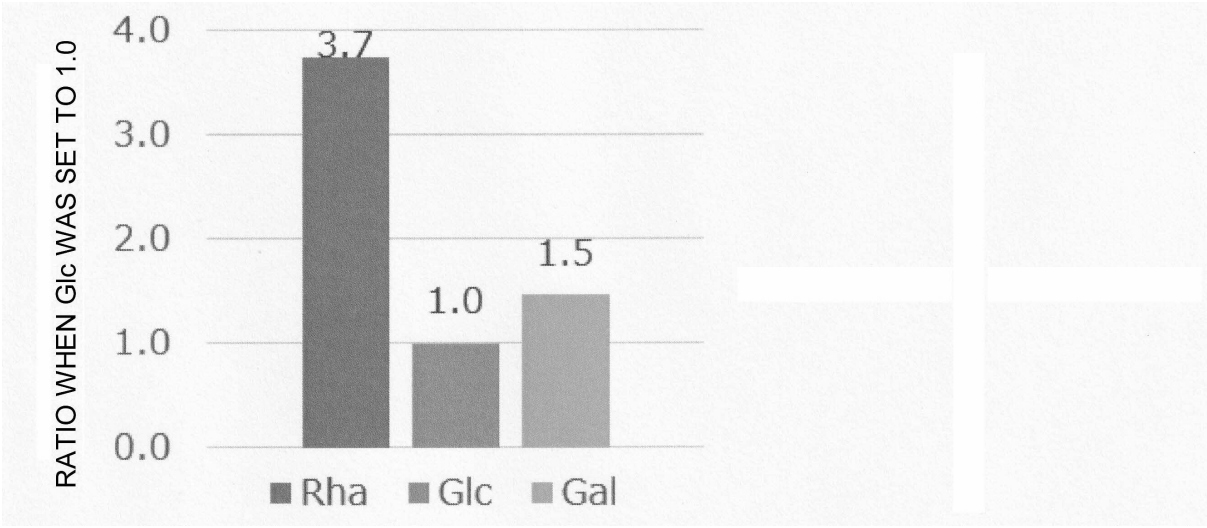
[Fig. 25]



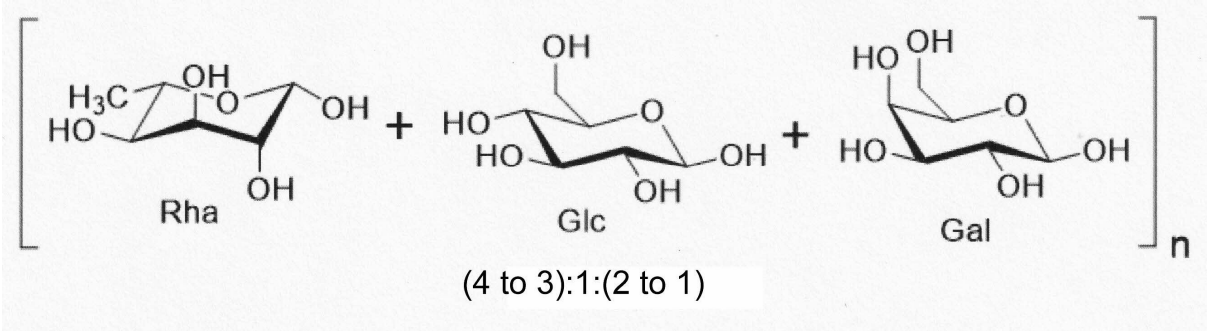
[Fig. 26]


¹H-NMR (700 MHz in D₂O)
FRACTION②
FRACTION①
8
7
6
5
4
3
2
1
0

[Fig. 27]


RATIO WHEN Glc WAS SET TO 1.0
4.0
3.0
2.0
1.0
0.0
3.7
1.0
1.5
Rha
Glc
Gal

[Fig. 28]


Rha
Glc
Gal
n
(4 to 3):1:(2 to 1)