

Description	Cat. No.	Substrate	Incubation Time (Minutes)
Human BSEP	453502	Taurocholic acid	30
Rat Bsep	453501	Taurocholic acid	16

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## Corning® Gentest™ BSEP Transporter Vesicle Uptake IC<sub>50</sub> Assay

### Quick Start Guide

Refer to Kit Instruction Manual for detailed procedure.



### Assay Sample Preparation

#### Vesicle/Substrate Cocktail

$^3\text{H}$ -TCA (for example: stock conc. is 217.4 $\mu\text{M}$ )	6 $\mu\text{L}$
1 mM TCA	1.3 $\mu\text{L}$
Assay Uptake Buffer	1716.4 $\mu\text{L}$
Human/rat BSEP vesicle	350 $\mu\text{L}$



Aliquot 59.25  $\mu\text{L}$  into columns 2-5, row A-H



Add 0.75  $\mu\text{L}$  serial diluted test compound into columns 2-5, rows A-H



Preincubate at 37°C for 5 minutes



Add 15  $\mu\text{L}$  of 25 mM ATP into columns 2-3, rows A-H  
Add 15  $\mu\text{L}$  of 25 mM AMP into columns 4-5, rows A-H



Incubate at 37°C for desired amount of time



Add 200  $\mu\text{L}$  chilled 1X Wash Buffer into all reaction wells



Precondition the filter or filter plate with 1X Blocking Buffer



Transfer sample to rapid filtration system (cell harvester or vacuum manifold)



Wash 6 times with chilled Wash Buffer



DRY THE FILTER OR FILTER PLATE

Add scintillation fluid



Read the plate on scintillation counter

### Data Acquisition

# Corning® Gentest™ BSEP Transporter Vesicle Uptake $\text{IC}_{50}$ Assay

Example for human BSEP  $\text{IC}_{50}$  Assay using TCA as substrate for one compound

Prepare the serial diluted test compound



Serial Dilution of Test Compound

		Comp1 w ATP ( $\mu\text{M}$ )		Comp1 w AMP ( $\mu\text{M}$ )		Comp2 w ATP ( $\mu\text{M}$ )		Comp2 w AMP ( $\mu\text{M}$ )				
	1	2	3	4	5	6	7	8	9	10	11	12
A	-	200	200	200	200	200	200	200	200	-	-	-
B	-	100	100	100	100	100	100	100	100	-	-	-
C	-	50	50	50	50	50	50	50	50	-	-	-
D	-	25	25	25	25	25	25	25	25	-	-	-
E	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	-	-	-
F	-	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	-	-	-
G	-	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	-	-	-
H	-	0	0	0	0	0	0	0	0	Normalization		