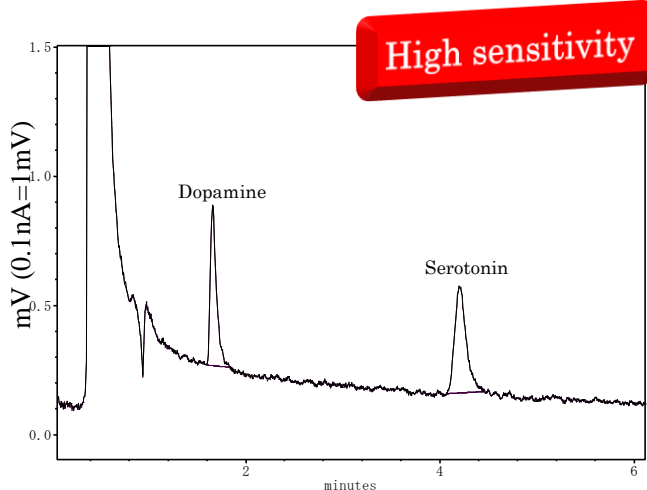


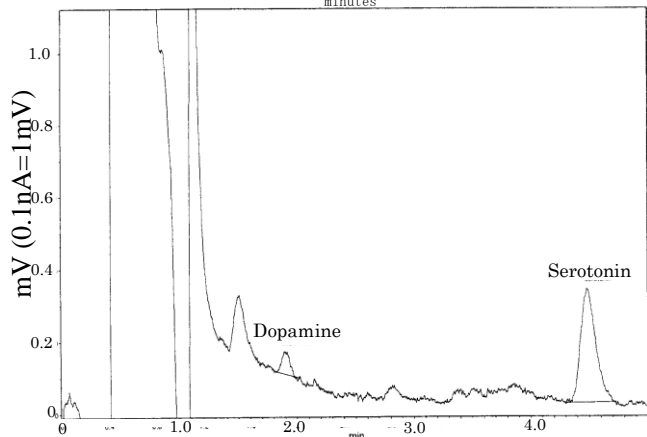
DA and 5-HT for Microdialysis

< HPLC Conditions >

HPLC-ECD system	HTEC-510
Separation Column	PP-ODSII or PP-ODSIII (φ4.6 x 30 mm)
Precolumn for mobile phase	PC-04-CA (φ4.0 × 5.0 mm)
Mobile Phase (PP-ODSII)	100 mM phosphate buffer (pH 5.4) – Methanol (98 : 2, v/v) 500 mg/L Sodium 1-Decanesulfonate, 50 mg/L EDTA · 2Na
Mobile Phase (PP-ODSIII)	100 mM phosphate buffer (pH 5.25) – Methanol (98 : 2, v/v) 500 mg/L Sodium 1-Decanesulfonate, 50 mg/L EDTA · 2Na
Flow rate	500 μL/min
Column Temp.	25 °C
Working Electrode	WE-3G (Graphite)
Gasket	GS-25
Applied potential	+400 ~ 450 mV vs. Ag/AgCl
Time Constant	1.5 sec
Precolumn	Set a precolumn (guard column) before the injectors. (CA-ODS)



Chromatogram of a standard solution
(1 pg on column)



Chromatograms obtained from rat forebrain
cortex Microdialysate.

Probe used: A-I-4-02

Film length: 2 mm

Perfusion solution: Ringer's solution

Perfusion rate: 1 μL/min

Fraction time: 5 minutes (injection volume 5 μL)

(Data from PP-ODS column)

Mobile Phase(PP-ODSIII) 1000 mL

100 mM phosphate buffer (pH 5.25)	Methanol	Sodium 1-Decanesulfonate	EDTA · 2Na
980 mL	20 mL	500 mg	50 mg

100 mM phosphate buffer (pH 5.25) 1000 mL

NaH ₂ PO ₄ ·2H ₂ O	Na ₂ HPO ₄ ·12H ₂ O	H ₂ O
15.19 g	0.941 g	1000 mL

Mobile Phase(PP-ODSII) 1000 mL

100 mM phosphate buffer (pH 5.4)	Methanol	Sodium 1-Decanesulfonate	EDTA · 2Na
980 mL	20 mL	500 mg	50 mg

100 mM phosphate buffer (pH 5.4) 1000 mL

NaH ₂ PO ₄ ·2H ₂ O	Na ₂ HPO ₄ ·12H ₂ O	H ₂ O
14.99 g	1.38 g	1000 mL

Dilution of standard solution

100 mM phosphate buffer (pH 3.5) containing 100 μM EDTA and 2Na 1000 mL

NaH ₂ PO ₄ ·2H ₂ O	H ₂ O(diluting in measuring cylinder)	1/10 Phosphoric acid	EDTA · 2Na
13.61 g	1000 mL	2.3 mL	37.2 mg

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