

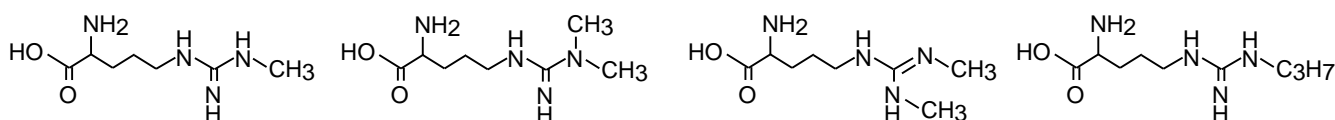
Unison UK-C18

150 x 4.6 mm

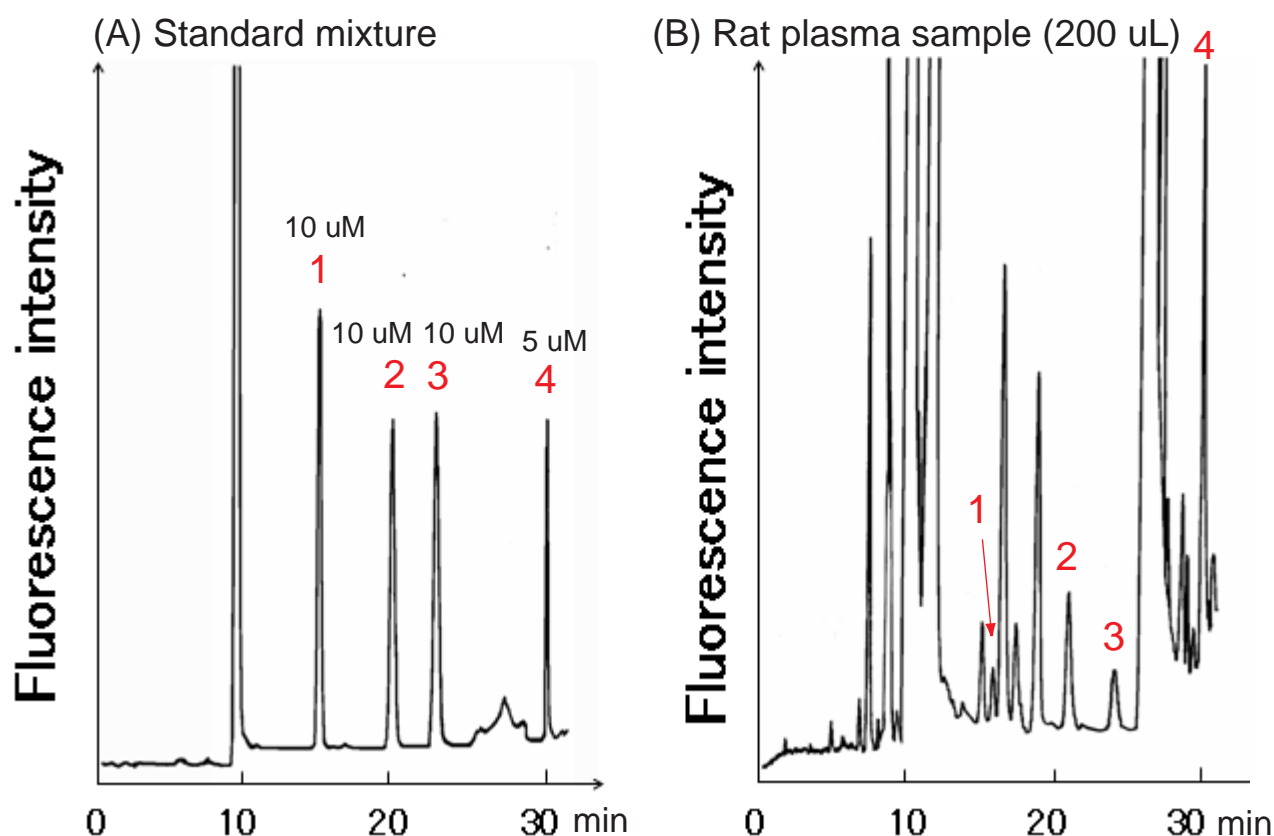
Application

## HPLC assay of methylated arginines using NBD-F as a fluorescent reagent

蛍光ラベル化剤NBD-Fを用いたラット血漿中のメチル化アルギニンのHPLC分析



- 1:  $N^G$ -monomethyl-L-arginine (L-NMMA)    2:  $N^G,N^G$ -dimethyl-L-arginine (ADMA)    3:  $N^G,N^{G'}$ -dimethyl-L-arginine (SDMA)    4:  $N^{\omega}$ -propyl-L-arginine (N-PLA)



Unison UK-C18, 150 x 4.6 mm

A: 50mM sodium phosphate buffer (pH 3.2) / acetonitrile = 91 / 9 (v/v)

B: acetonitrile

0%B (0-18 min), 0-30%B (18-28 min), 30%B (28-32 min)

0.75 mL/min, 40 deg.C, Ex.470 nm / Em. 530 nm

Pre-column derivatization: 105  $\mu$ l of 100mM borate buffer (pH 9.0) and 30  $\mu$ l of 40mM NBD-F in acetonitrile were added to the 30  $\mu$ l of sample. Then, the reaction was incubated at 40 deg.C for 3 min. To stop the reaction, 435  $\mu$ l of 0.5% acetic acid (v/v) was added. A 10  $\mu$ l aliquot of sample was injected onto the HPLC.

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