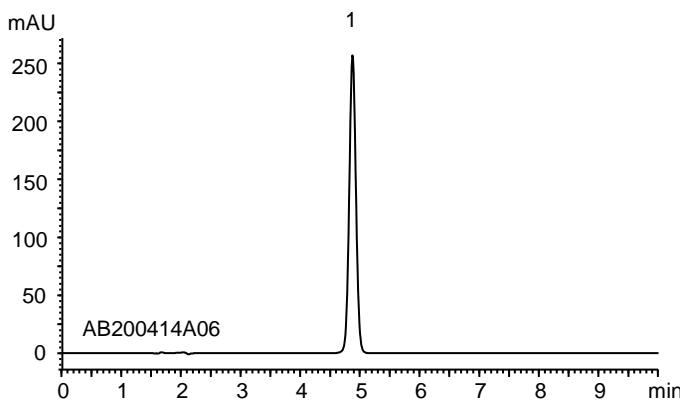
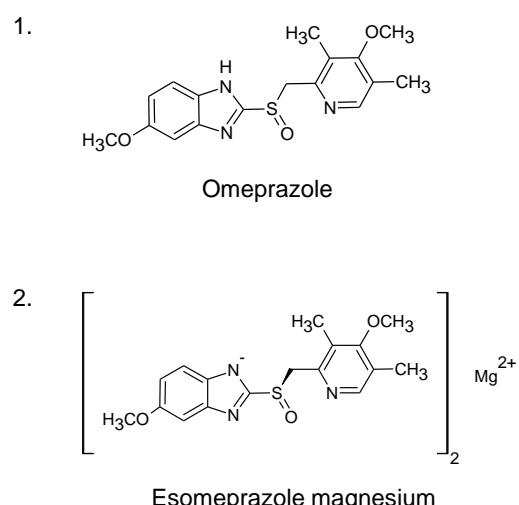
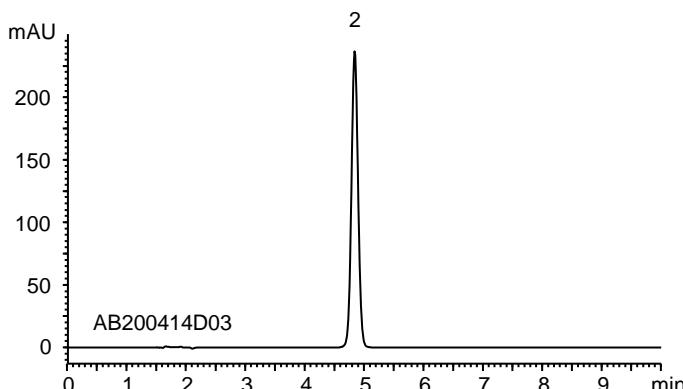


エソメプラゾールマグネシウム（米国薬局方記載条件）
Esomeprazole Magnesium (The United States Pharmacopeia)

AB200829A

(A) Standard solution*1
(0.05 mg/mL Omeprazole)

	System suitability requirement	Result
Theoretical plate number (Omeprazole)	≥2000	9400
Relative standard deviation of the peak area (n=6) (Omeprazole)	≤2.0%	0.36%

(B) Sample solution*1
(0.05 mg/mL Esomeprazole magnesium)

Column	: YMC-Triart C8 (5 µm, 12 nm) 150 X 4.6 mmI.D.
Eluent	: phosphate buffer (pH 7.6)*2/acetonitrile (13/7) <small>*2Dissolve 4.472 g of Na₂HPO₄·2H₂O and 0.725 g of NaH₂PO₄ in 1000 mL water, dilute 250 mL of this solution with water to 1000 mL and adjust pH 7.6 with H₃PO₄</small>
Flow rate	: 1.0 mL/min
Temperature	: 25°C
Detection	: UV at 280 nm
Injection	: 20 µL

(The United States Pharmacopeia 42nd; ASSAY)

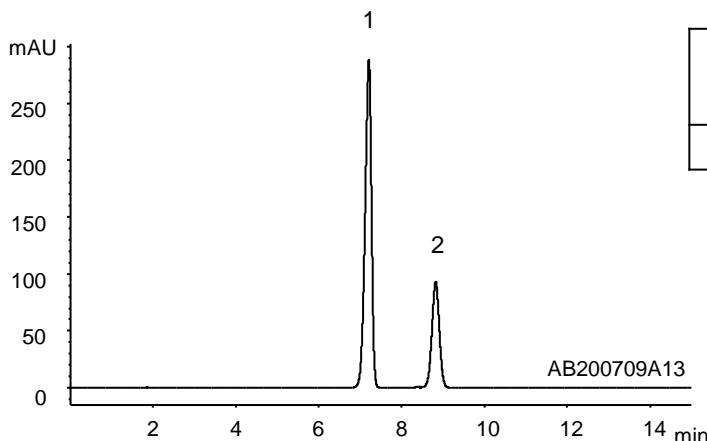
*1All standard and sample solutions were prepared from Omeprazole and Esomeprazole magnesium supplied as a reagent for laboratory use.

エソメプラゾールマグネシウム（米国薬局方記載条件）
Esomeprazole Magnesium (The United States Pharmacopeia)

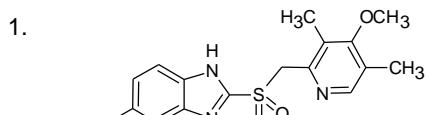
AB200830A

(A) System suitability solution*1

(0.04 mg/mL Omeprazole related compound A, 0.04 mg/mL Omeprazole)

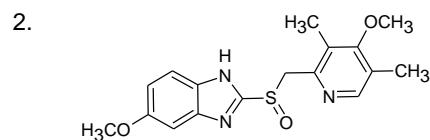
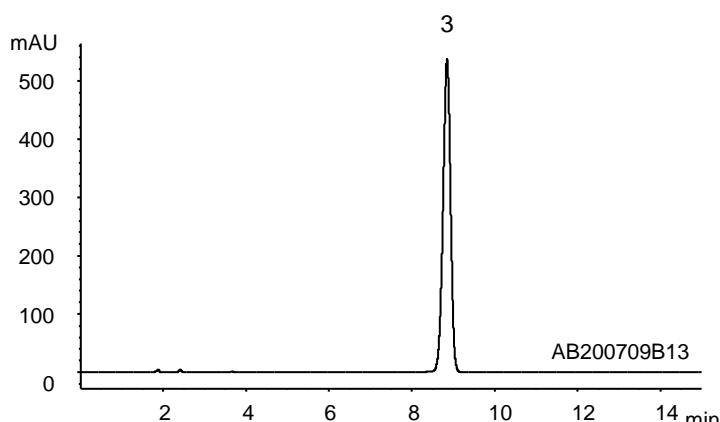


	System suitability requirement	Result
Resolution (1, 2)	≥3.0	5.4

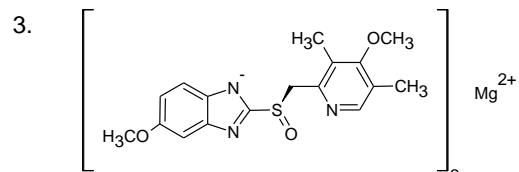
Omeprazole related compound A
(Omeprazole sulfone)

(B) Sample solution*1

(0.16 mg/mL Esomeprazole magnesium)



Omeprazole



Esomeprazole magnesium

Column : YMC-Triart C8 (5 µm, 12 nm)
150 X 4.6 mmI.D.

Eluent : phosphate buffer (pH 7.6)*2/acetonitrile (29/11)

*2Dissolve 4.472 g of $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$ and 0.725 g of NaH_2PO_4 in 1000 mL water, dilute 250 mL of this solution with water to 1000 mL and adjust pH 7.6 with H_3PO_4

Flow rate : 1.0 mL/min

Temperature : 45°C

Detection : UV at 280 nm

Injection : 50 µL

(The United States Pharmacopeia 42nd; ORGANIC IMPURITIES)

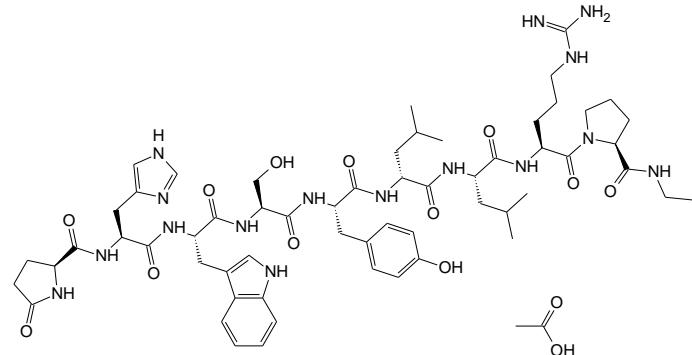
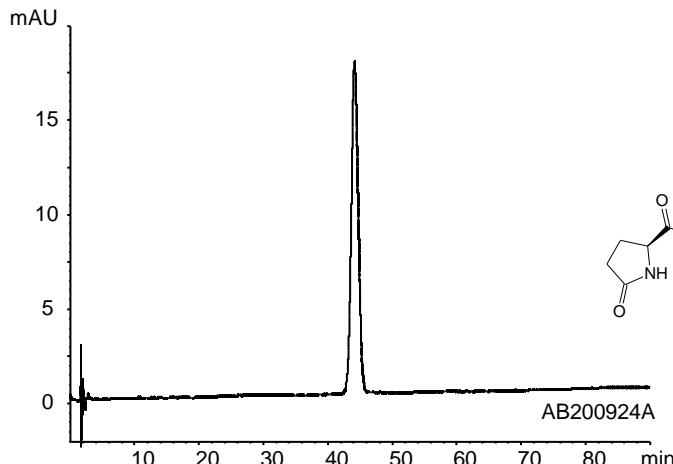
*1All system suitability and sample solutions were prepared from Omeprazole related compound A, Omeprazole and Esomeprazole magnesium supplied as a reagent for laboratory use.

リュープロレリン酢酸塩

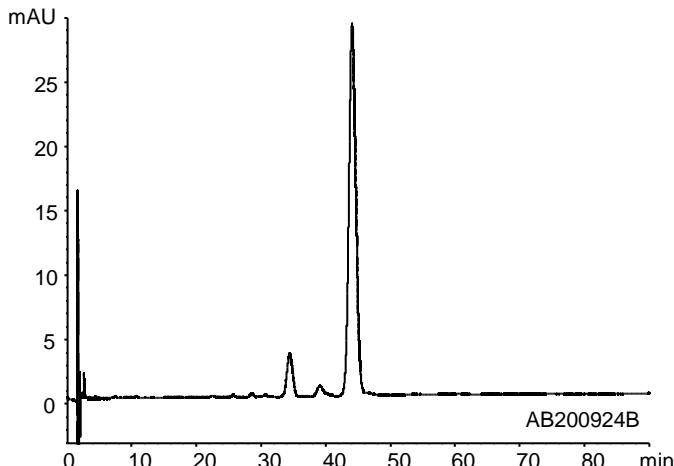
Leuprorelin acetate (Leuprolide acetate)

AB200926A

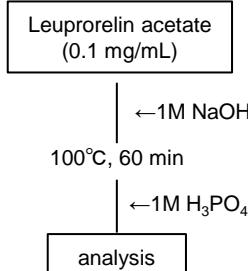
(A) Leuprorelin acetate (0.05 mg/mL)



(B) Leuprolide acetate alkali degradation



Method of alkali degradation



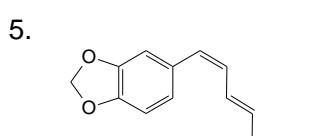
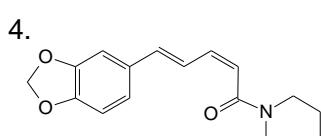
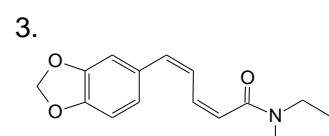
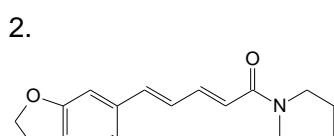
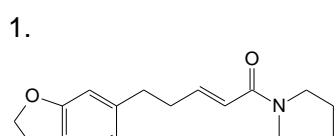
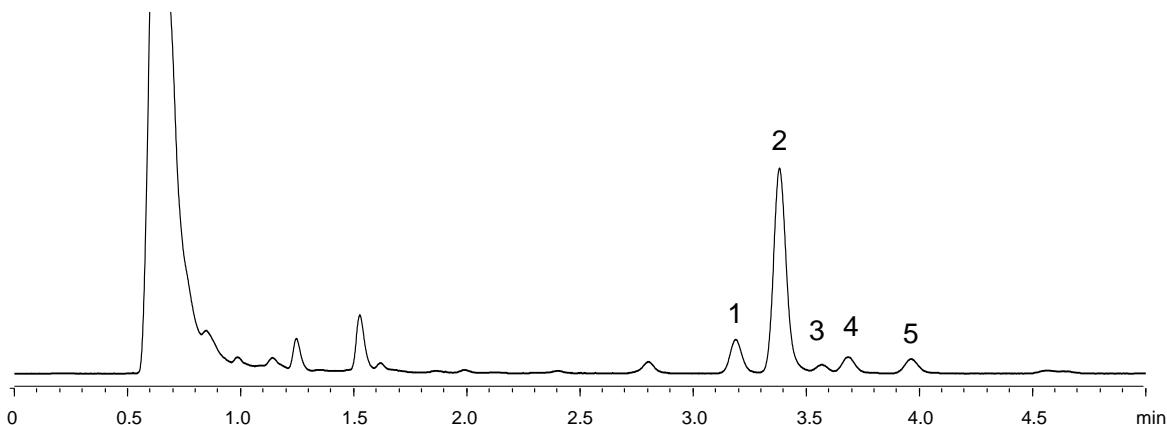
Column	: YMC-Triart Bio C18 (3 µm, 30 nm) 100 X 4.6 mmI.D.
Eluent	: buffer (pH 3.0)*/acetonitrile/1-propanol (85/9/6) <i>*Dissolve 15.2 g of triethylamine in 800 mL of water and adjust pH 3.0 with H₃PO₄, and add water to make 1000 mL.</i>
Flow rate	: 0.75 mL/min
Temperature	: 25°C
Detection	: UV at 220 nm
Injection	: 20 µL

Reference

The Japanese Pharmacopoeia 17th Edition, Leuprorelin Acetate / Official Monographs

ヒハツ(ロングペッパー)抽出物中のピペリン類
Piperine and the derivatives in long pepper extract

U201005A



Courtesy of T. Mizumoto, MARUZEN PHARMACEUTICALS CO., LTD.

Column	: Meteoric Core C18 (2.7 µm, 8 nm) 100 X 4.6 mmI.D.
Eluent	: A) acetonitrile/water/formic acid (450/550/1) B) acetonitrile 0% B (0-5 min), 100% B (5.01-15 min), 0% B (15.01-25 min)
Flow rate	: 1.4 mL/min
Temperature	: 35°C
Detection	: UV at 270 nm
Injection	: 20 µL
Sample	: Long pepper extract powder

Reference:

T. Mizumoto, F. Nakano, Y. Nishizaki, N. Masumoto, N. Sugimoto,
Quantitative Analysis of Piperine and the Derivatives in Long Pepper Extract by HPLC Using Relative Molar Sensitivity,
Food Hygiene and Safety Science 60 (5) : 134-143 (2019)