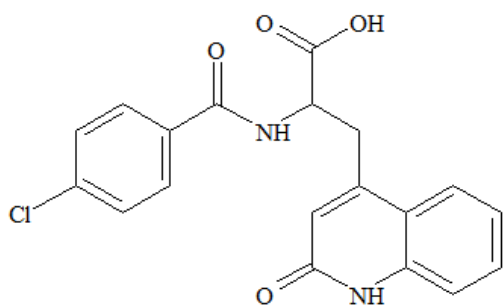


Rebamipide inhibits the secretion of stomach acids and increases mucus production, it used to relieve stomach ulcers and acute gastritis. This application note presents a method for extracting rebamipide from serum using InertSepPhama solid-phase -, and measurement using LC-MS/MS.

1. Flow diagram of solid phase pretreatment

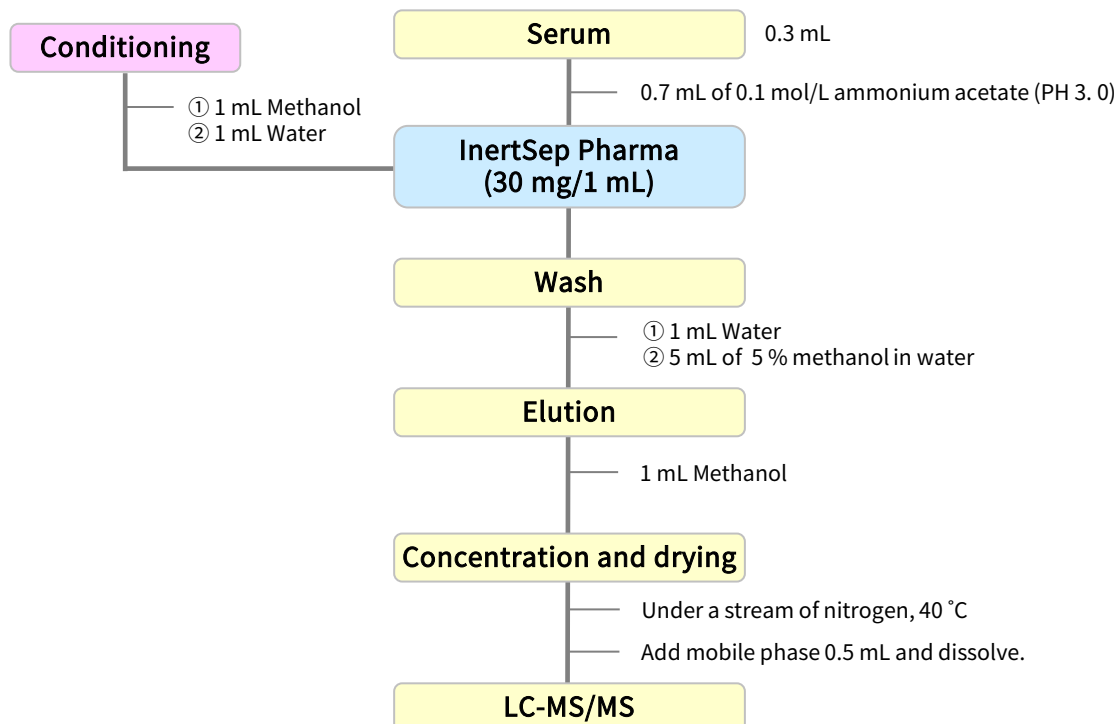
[Structure of rebamipide]



Rebamipide

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.

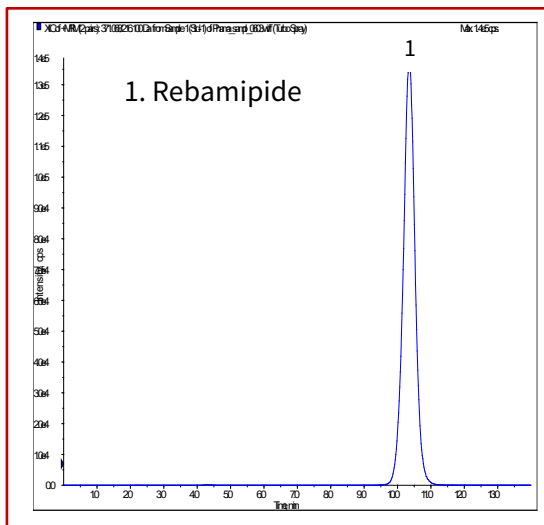
[Example of pretreatment of rebamipide]



NOTE) This is a method developed by GL Sciences based on literature information.

2. Measurement conditions

Example: measurement of standard



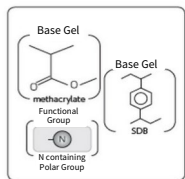
HPLC conditions

Column : InertSustain C18 (5 μ m, 150 x 2.1 mm I.D.)
Eluent : A) CH₃CN
 : B) 10 mM HCOONH₄ in H₂O
 A/B = 20/80, v/v
Flow rate : 0.2 mL/min
Column Temperature : 40 °C
Detection : LC-MS/MS
 (API 4000 : ESI, Positive, MRM)
Injection Volume : 10 μ L
Sample : Rebamipide Q1/Q3 = 371/216

3. Measurement-related products

Solid-phase extraction column

[InertSep Pharma]



Mean particle size : 30 μ m
 Surface Area : 600 m²/g
 Pore volume : 1.1 mL/g
 Pore size : 70 Å
 PH range of use : 1 - 14

InertSep Pharma is a complex polymer solid phase of N-containing methacrylate and styrene divinylbenzene. This is a reversed-phase polymer solid phase dedicated to pharmaceutical analysis developed for simultaneous screening of pharmaceutical compounds in biological samples.

Product name	Column size	Qty.	Cat.No.
InertSep Pharma	30 mg/1 mL	100 bottles	5010-27100

HPLC column

[InertSustain C18]



Base Material : High purity spherical silica gel (ES silica)
 Surface Area : 350 m²/g
 Pore size : 100 Å
 Pore volume : 0.85 mL/g
 End-capping : Yes
 Carbon Loading : 14 %
 USP Code : L1
 pH Range : 1 - 10

InertSustain C18 is an ODS column that can be used with 100% aqueous eluents. It was developed by pursuing inertness and chemical stability using GL Sciences' proprietary synthetic technology.

Product name	Particle size	Inside diameter	Length	Cat.No.
InertSustain C18	5 μ m	2.1 mm	150 mm	5020-07315

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