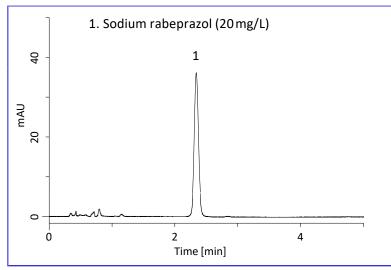
### **Analysis of Rabeprazole**

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Rabeprazole is a type of proton pump inhibitors. It reduces gastric acid production and is used as an antiulcer drug.

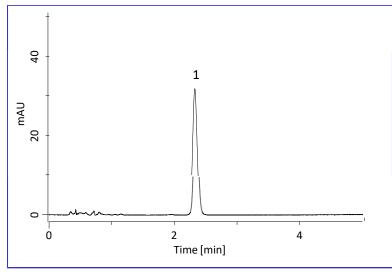
In general, basic functional groups often cause peak tailing in HPLC analysis. Howevrer, good peak shape was obtained by using InertSustain C18 because of its inertness although rabeprazole has several basic groups.

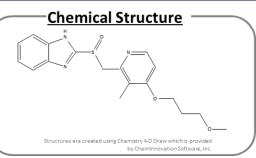
# **Standard Solution**



## **Tablet Sample**

The sample concentration was adjusted to 20 mg/L as rabeprazole sodium.

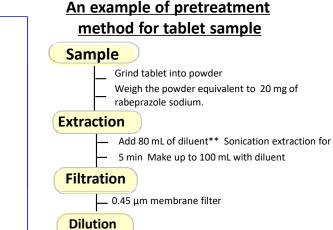




### **Conditions**

Column	: InertSustain C18 HP
	(3 μm, 50 x 4.6 mm I.D.)
Column Cat. No. : 5020-14442	
Eluent	: A) CH <sub>3</sub> CN
	B) Buffer*
	A/B = 32/68, v/v
Flow rate	: 1.0 mL/min
Column temp.	:30 °C
Detection	: UV 280 nm
Injection vol.	: 9 µL

\* Buffer: Sodium dihydrogenphosphate (0.725 mg) and di- sodium hydrogen phosphate (4.472 g) was dissolved in 300 mL of purified water. The solution was made up to 1000 mL with purified water. After 4-fold dilution of this solution with purified water, its pH value was adjusted to 7.6 by adding phosphoric acid.



10-fold dilution with diluent

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