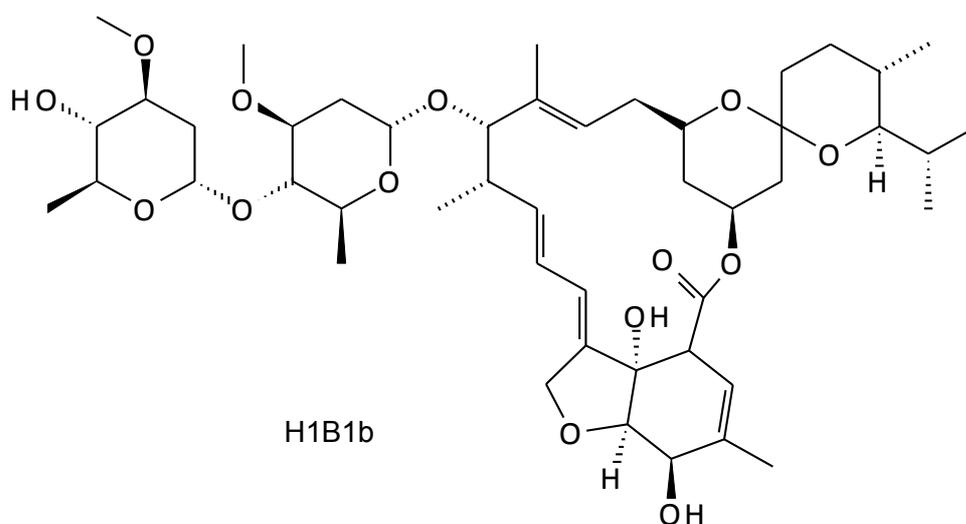
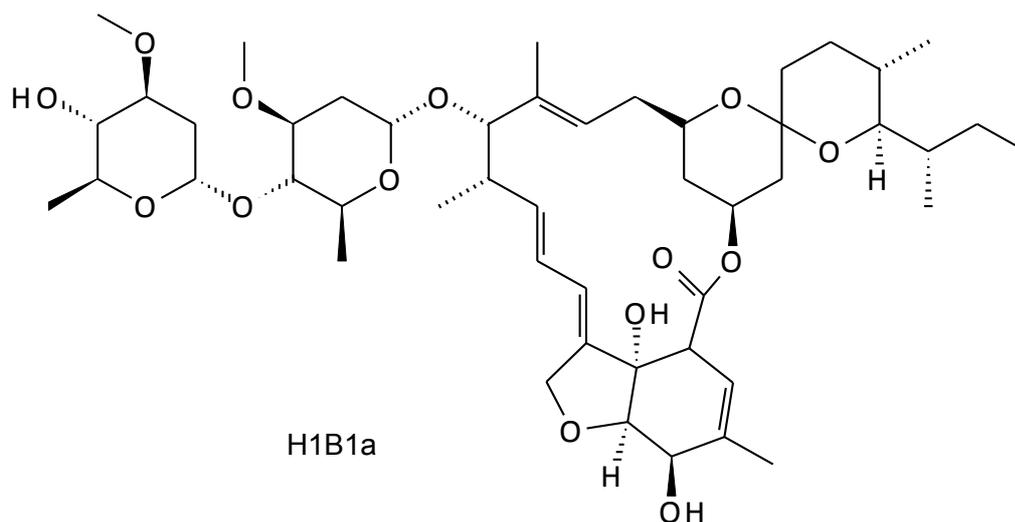


# Ivermectin Injection



Ivermectin (22,23-dihydroavermectin B1a + 22,23-dihydroavermectin B1b) is a broad-spectrum antiparasitic avermectin medicine.

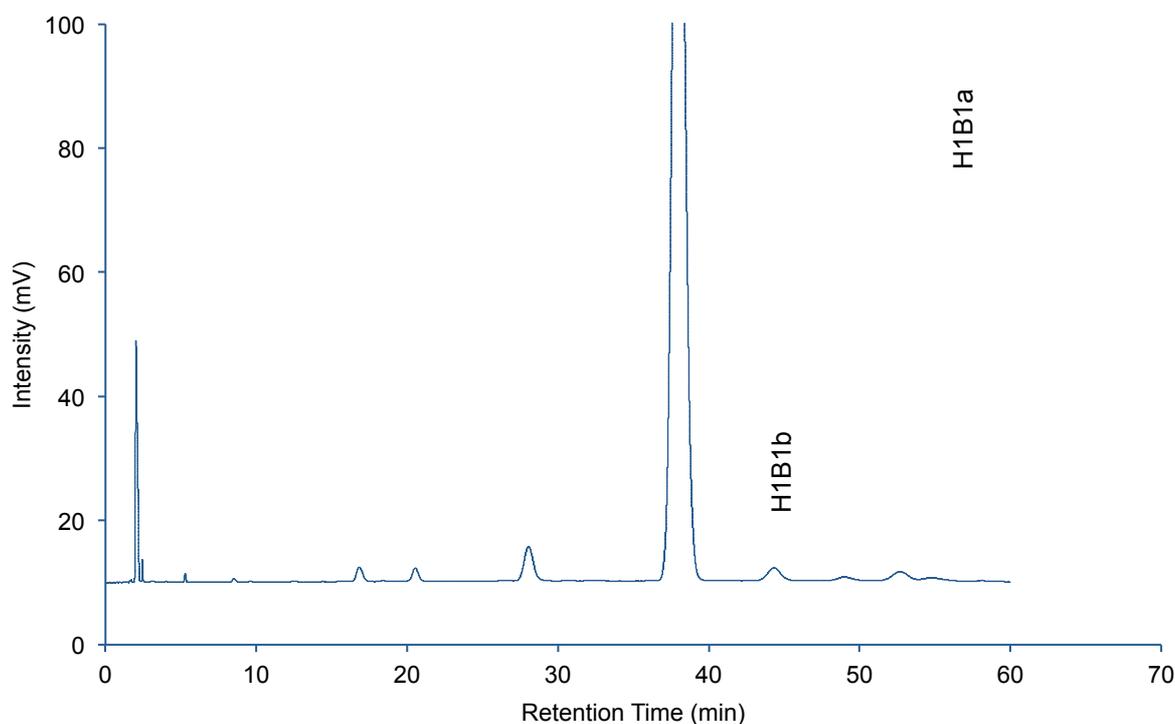
It is sold under brand names Stromectol in the United States, Ivomec in Europe by Merial Animal Health, Mectizan in Canada by Merck and Ivexterm in Mexico by Valeant Pharmaceuticals International.

# Ivermectin Injection

## Particulate C18 HPLC column

### Chromatographic Conditions

Column: Particulate C18 HPLC column, 250 x 4.6 mm, 5.0  $\mu$ m  
 Injection: 20  $\mu$ L  
 Detection: Shimadzu 2010 CHT, UV 245 nm  
 Cell: 10  $\mu$ L  
 Flow Rate: 1.5 mL/min  
 Mobile Phase (v/v): Mixture of acetonitrile, methanol and water (106:55:39)  
 Temperature: Ambient  
 Diluent: Methanol  
 Sample: 0.4 mg/mL (400 ppm) of each component in diluent  
 Pressure Drop: 118 Bar (1711 psi)



### Chromatographic Data

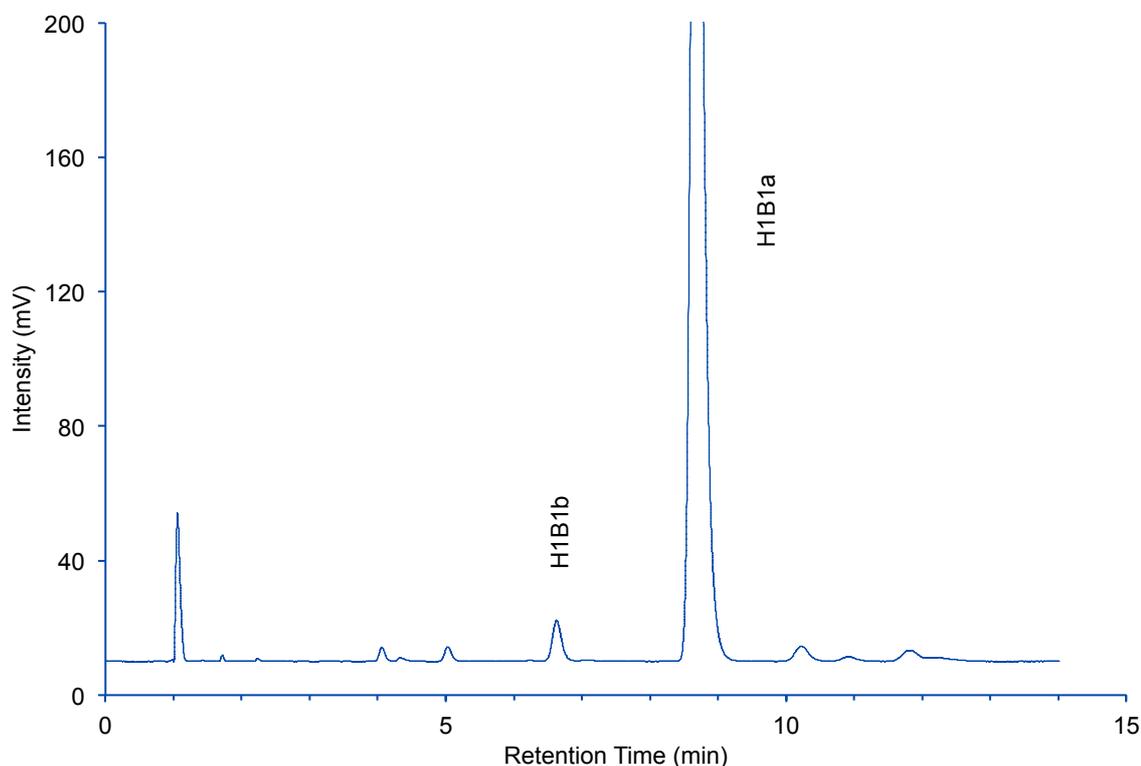
No.	Compound	Time (min)	T <sub>USP</sub>	Resolution
1	H1B1b	28.0	1.1	–
2	H1B1a	38.0	1.1	7.9

# Ivermectin Injection

## Chromolith® HighResolution RP-18 endcapped

### Chromatographic Conditions

Column: Chromolith® HighResolution RP-18endcapped, 100 x 4.6 mm (1.52022.0001)  
 Injection: 10 µL  
 Detection: Shimadzu 2010 CHT, UV 245 nm  
 Cell: 10 µL  
 Flow Rate: 1.5 mL/min  
 Mobile Phase (v/v): Mixture of acetonitrile, methanol and water (106:55:39)  
 Temperature: Ambient  
 Diluent: Methanol  
 Sample: 0.4 mg/mL (400 ppm) of each component in diluent  
 Pressure Drop: 50 Bar (725 psi)



### Chromatographic Data

No.	Compound	Time (min)	T <sub>USP</sub>	Resolution
1	H1B1b	28.0	1.2	–
2	H1B1a	38.0	1.4	7.9

# Ivermectin Injection – Method Comparison

## Particulate C18 HPLC column

## Chromolith® HighResolution RP-18endcapped

