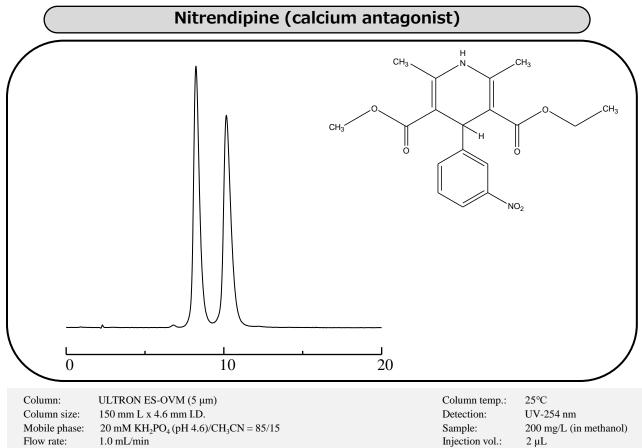


# Analysis of nitrendipine using the ULTRON ES-OVM

Nitrendipine is effective in lowering blood pressure and used in the treatment of hypertension and angina pectoris. The intake of calcium by the cells of blood vessel causes the blood vessels to contract and thereby increasing the blood pressure. Nitrendipine, that belongs to calcium antagonist group can widen the blood vessels and decrease the blood pressure preventing calcium going into the cells of blood vessel wall. Shown below is a reversed-phase analysis of nitrendipine performed using the ULTRON ES-OVM.



#### Features of the ULTRON ES-OVM

- 1. Particularly effective for separations of chiral compounds.
- 2. Employs a highly denaturation resistant protein ligand\* (ovomucoid) as a stationary phase.
- 3. Displays a wide range of chiral recognition.
- 4. No sample pretreatment required for chiral separations. (Blood plasma samples can be analyzed without pretreatment.)
- 5. Can be used for reversed-phase analyses.
- 6. Trace analyses possible (several nanograms).
- \*Ligand: A substance that binds selectively with a specific receptor.

# SHINWA CHEMICAL INDUSTRIES LTD.

50-2 Kagekatsu-cho, Fushimi-ku Kyoto 612-8307 Japan TEL: +81-75-621-2360 FAX: +81-75-602-2660 E-mail: info@shinwa-cpc.co.jp Website: http://shinwa-cpc.co.jp/en/

# ■ Analytical column specifications ■

Product name	Particle size (µm)	Column dimensions Length × I.D. (mm)
ULTRON ES-OVM	5	150 × 2.0
ULTRON ES-OVM	5	150 × 4.6
ULTRON ES-OVM	5	150 × 6.0
ULTRON ES-OVM-C	5	150 × 4.6
ULTRON ES-OVM	10	250 × 4.6
ULTRON ES-OVM Prep (preparative)	10	250 × 20.0
ULTRON ES-OVM	3	Contact us

## ■ Guard column specifications ■

Product name	Particle size (µm)	Column dimensions Length × I.D. (mm)
ULTRON ES-OVM.G	5	10 × 4.0
ULTRON ES-OVM Prep.G (preparative guard column)	10	15 × 8.0
ULTRON ES-OVM (guard cartridges (x2))	5	5 × 2.0
Guard cartridge holder (with adaptor)	For 5 × 2.0 mm columns	
ULTRON ES-OVM (guard cartridges (x 2))	5	10 × 4.6
Guard cartridge holder (with adaptor)	For 10 × 4.6 mm columns	

Protecting columns using guard columns

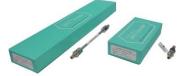
By using guard columns together with analytical columns, analytical columns can be protected from contamination, enabling longer column lifetimes. The use of guard columns is particularly recommended when analyzing samples containing large amounts of impurities.

Guard cartridges are also available when guard columns are changed frequently.

Please use guard columns with the same or smaller inner diameter than that of the analytical column being used.

#### ●ULTRON ES-OVM-C

Clopidogrel bisulfate evaluation conditions based on USP standards employed for shipping inspections. (Performance reports included with columns.)



Please feel free to contact us with questions related to analyses. Column screening services are also available.

Please be aware that specifications and prices are subject to change without prior notification.

### SHINWA EXPRESS VOL. 75

Shinwa Chemical Industries Ltd. http://shinwa-cpc.co.jp/en/