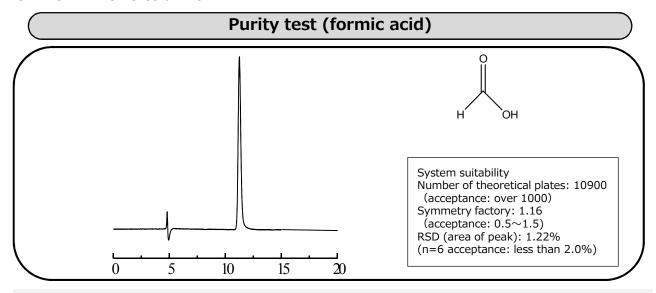
a

### <u>Application</u> 2016 HINWA EXPR M VOL. 83

## Analysis of povidon under Japanese Pharmacopoeia of article 17

Analytical method for povidon under Japanese Pharmacopoeia of article 17 has been amended. Shown below is a analysis of povidon performed using ULTRON PS-80H and ULTRON VX-ODS columns.



ULTRON PS-80H (10 µm) Column: 300 mm L x 8.0 mm I.D. Column size:

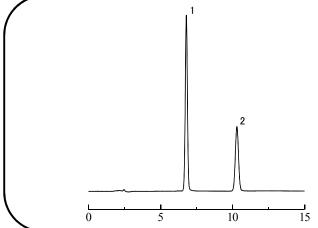
0.14% HClO4aq Mobile phase: Flow rate: 1.0 mL/min

Column temp.: Detection:

Formic acid 10 mg/L (in water) Sample:

Injection vol.:

# Purity test (1-vinyl-2-pyrrolidone)



1. 1-Vinyl-2-pyrrolidone

2. Vinyl acetate

System suitability Resolution: 10.33 (acceptance: over 2.0)

RSD (area of peak): 0.30% (n=6 acceptance: less than 2.0%)

ULTRON VX-ODS (5 μm) / ULTRON VX-ODS. G (5 μm) Column:

Column size:  $150\ mm\ L\ x\ 4.6\ mm\ I.D.\ /\ 10\ mm\ L\ x\ 4.0\ mm\ I.D.$ 

Detection: UV-235 nm  $H_2O/CH_3CN = 9/1$ Mobile phase: Flow rate: 1.0 mL/min

Column temp.:

Sample: 1-Vinyl-2-pyrrolidone 1 mg/L

Vinyl acetate 50 mg/L

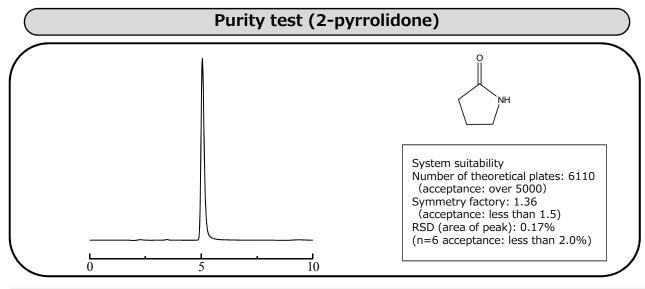
Injection vol.:  $20 \,\mu L$ 



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Column: ULTRON VX-ODS (5 μm) / ULTRON VX-ODS. G (5 μm)

150 mm L x 4.6 mm I.D. / 10 mm L x 4.0 mm I.D. Column size:

Detection: UV-205 nm

Column temp.: 40°C Mobile phase:  $H_2O/CH_3OH = 19/1$ 2-pyrrolidone 30 mg/L (in mobile phase) Sample:

0.8 mL/min Injection vol.: Flow rate:

### ■ Analytical column specifications

Product name	Particle size (µm)	Column dimensions Length × I.D. (mm)
ULTRON PS-80H	10	300 × 8.0
ULTRON PS-80H.G	10	50 × 8.0
ULTRON VX-ODS	5	150 × 4.6
ULTRON VX-ODS.G	5	10 × 4.0

#### 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.



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

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