

## nal von minden Drug-Screen<sup>®</sup> Heroin Rapid Test

**Rapid test for the detection of 6-monoacetylmorphine in urine · Cut-off: 10 ng/mL**

6-Monoacetylmorphine (6-MAM) is a unique metabolite produced following the consumption of heroin. Usually smoked, snorted or injected intravenously, heroin is a fast-acting, semi-synthetic opioid which is both extremely potent and highly addictive. The famous rush it provides results from the dopamine-inducing effects it has on the brain and central nervous system, which evoke intense feelings of pleasure and euphoria. First synthesised in 1874, heroin was initially marketed in the early 20th century for use as a morphine substitute and cough suppressant. Though sometimes used controversially in opioid replacement therapy, heroin remains an internationally controlled narcotic due to its high abuse potential. In addition to the euphoric effects it produces, heroin carries a number of risks and also provokes numerous undesirable and potentially fatal side effects. These mainly include shallow breathing and a weakened pulse. Intravenous use of heroin is also linked to an increased risk of contracting infectious diseases such as hepatitis B, C and HIV/AIDS, not to mention bacterial infections around the injection sites. With as many as 17.4 million opiate users worldwide (United Nations Office on Drugs and Crime, UNODC 2016 World Drug Report), heroin use, addiction and overdose all play significant roles on the drug scene. The specific detection and prompt treatment of heroin abuse can mean the difference between life and death. However, commercially available rapid tests for the detection of opiates do not

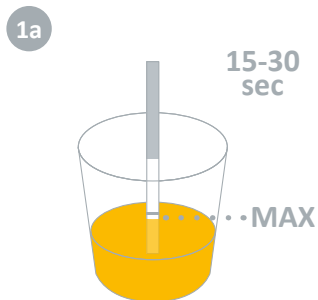
allow a clear distinction between heroin use and the intake of other opiates. To complement our Drug-Screen Morphine/Opiates test, nal von minden now offers the Drug-Screen Heroin urine rapid test for the fast and reliable detection of recent heroin use.

The Drug-Screen Heroin (HRN) rapid test is a competitive immunoassay for the qualitative determination of the heroin-specific metabolite 6-monoacetylmorphine in human urine, with a cut-off of 10 ng/mL. It can be used as an aid in the initiation or monitoring of therapeutic measures. As an *in-vitro* diagnostic tool for professional use, the test provides a visual and preliminary analytical result.

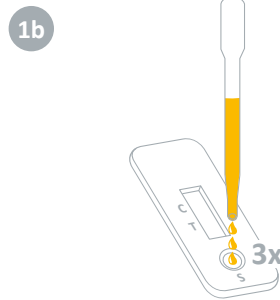
### Your benefits at a glance:

- ✓ Detection window: 6-8 hours
- ✓ Easy to use
- ✓ Fast and reliable results in just 5 minutes
- ✓ Minimum 12 month shelf life
- ✓ In accordance with DIN EN ISO 15189 for medical laboratories, our rapid tests are available barcoded for use in reader-based evaluations

## Test procedure



Immerse the test strip into the urine sample as far as the corresponding mark (MAX) for **15-30 seconds**. The liquid must not exceed the MAX mark.



Transfer **3 drops** of urine (approximately 120 µl) into each sample opening of the test cassette. Make sure that the urine does not come into contact with other areas of the test.



Read the results of the drug test **after 5 minutes**.



A detailed instruction for use can be found in the package insert.

## Result interpretation



## Heroin

Rapid test for the detection of the heroin-specific metabolite 6-monacetylmorphine in urine

Product	Format	Sample	Cut-Off	Product code	Pack Size
Drug-Screen HRN 10 ng/mL	Test strip	Urine	10 ng/mL	101057N-50	50 individually packed test strips
Drug-Screen HRN 10 ng/mL	Test cassette	Urine	10 ng/mL	102057N-30	30 individually packed test cassettes
Drug-Screen HRN 10 ng/mL	Test strip	Urine	10 ng/mL	101057N-10	10 individually packed test strips
Drug-Screen HRN 10 ng/mL	Test cassette	Urine	10 ng/mL	102057N-10	10 individually packed test cassettes

Rev03\_01/XX0702en00012  
Rev03\_01/0702en00032

Our **customer service team** is on hand to answer any questions you may have by telephone, via email or in a personal consultation. For details on **your local sales office and regional free phone numbers**, visit [www.nal-vonminden.com](http://www.nal-vonminden.com).

We help you care!

We help you care!

Rapid Tests

Laboratory Diagnostics

Laboratory Service

Consulting & Service

Headquarters

**nal von minden GmbH** · Carl-Zeiss-Strasse 12 · 47445 Moers · Germany  
 Chief Executive Officers: Sandra von Minden · Roland Meißner · Thomas Zander  
 Commercial reg. Kleve · HRB 5679  
 Tel.: +49 941 290 10-0 · Fax: +49 941 290 10-50

info@nal-vonminden.com  
[www.nal-vonminden.com](http://www.nal-vonminden.com)