

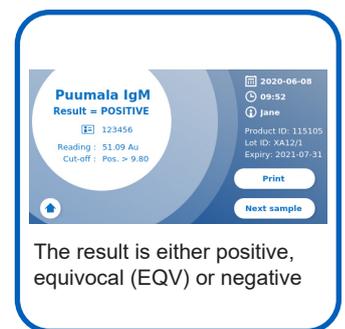
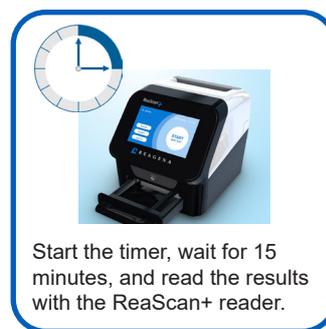
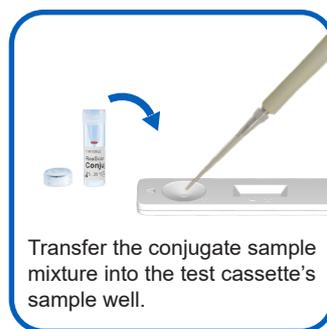
## DIAGNOSTICS FOR HANTAVIRUS INFECTIONS



Reagent is a pioneer in rapid diagnostics for zoonotic diseases and an undisputed leader in Hantavirus rapid diagnostics. Reagent offers test kits for reliable detection of Hantavirus strain-specific antibodies to Puumala and Dobrava or Hantaan virus infections in human serum or plasma. The product portfolio includes Enzyme Immunoassays (EIA) and Lateral Flow rapid tests, including the ReaScan+ reader and cassettes.

### ReaScan<sup>®</sup>+ rapid tests

Rapid tests based on the ReaScan technology enable very high levels of sensitivity and specificity. The test line intensity is read by the ReaScan+ reader, which reports the result as a numerical value. Total analysis time is only 15 minutes. Test result is read in seconds with ReaScan+ reader.



ReaScan+ PUUMALA IgM and ReaScan DOBRAVA-HANTAAN IgM are lateral flow rapid tests for detection of acute Hantavirus infections in human serum or plasma.

Product	Test performance	Packaging	Ref. number
ReaScan+ PUUMALA IgM	PPA (EQV counted as positive): 99,3 % (95 % CI: 95,9-100,0) NPA (EQV counted as positive): 99,3 % (95 % CI: 96,1-100,0)	10 tests	115105

Sensitivity and specificity of each test was obtained when evaluating test performance with panels of confirmed patient samples.

## Reagent POC® rapid test

Reagent POC® PUUMALA IgM is the easiest and fastest solution for the detection of acute Puumala virus infection. The visual test is very easy to use and extremely fast, still offering very good performances in terms of sensitivity and specificity. The test detects Puumala virus specific IgM antibodies from serum, plasma or fingertip blood. Total analysis time is only 10-15 minutes. Test result is read visually.

Product	Test performance	Packaging	Ref. number
Reagent POC PUUMALA IgM	Specificity 98 % Sensitivity 93 %	10 tests	114001

Sensitivity and specificity was obtained when evaluating test performance with panels of confirmed patient samples.

## Reagent EIA

Reagent PUUMALA EIA and Reagent DOBRAVA-HANTAAN EIA are enzyme immunoassays for detection of Puumala and Dobrava or Hantaan virus specific antibodies from human serum.

Product	Test performance	Packaging	Ref. number
Reagent PUUMALA IgM EIA	Specificity 100 % Sensitivity 99 %	96 wells 3 x 4 test strips (8 wells)	114201
Reagent PUUMALA IgG EIA	Specificity 99 % Sensitivity 95 %	96 wells 3 x 4 test strips (8 wells)	114301
Reagent DOBRAVA-HANTAAN IgM EIA	Specificity 99 % Sensitivity 99 %	96 wells 3 x 4 test strips (8 wells)	114202
Reagent DOBRAVA-HANTAAN IgG EIA	Specificity 99 % Sensitivity 99 %	96 wells 3 x 4 test strips (8 wells)	114302

Sensitivity and specificity of each test was obtained when evaluating test performance with panels of confirmed patient samples.

## Hantaviruses

Hantaviruses are rodent-borne viruses causing clinical illness of varying severity in humans. Currently, over 20 different hantaviruses have been identified worldwide to be human pathogens. Each hantavirus is specific to a different rodent host. Transmission of the virus to humans occurs through the inhalation of infected rodent urine, droppings, or saliva.

The most common European hantavirus disease is caused by Puumala hantavirus, carried by the bank vole (*Myodes glareolus*). The virus is widespread across most of the European continent.

Dobrava hantavirus, carried by the yellow-necked mouse (*Apodemus flavicollis*), is found only in south-east Europe, as far as the Czech Republic and southernmost Germany.

The clinical features in patients with hantavirus disease are quite variable, from asymptomatic to severe. The incubation period is relatively long, mostly 2-3 weeks, but possibly up to six weeks.

Ref.: European Centre for Disease Prevention and Control, Hantavirus infection fact sheet