Katholieke Universiteit van Leuven
Evaluatie van de immunochromatographische isolatie van rota- en adenovirus
1999-2000 internal study.
Ceelen TESSA

Translated abstracts:

Immunochromatography principle

Test restrictions

- These tests are aimed to the detection of Rota and Adenovirus only. They are not
designed for other detections such as bacteria and other viruses responsible for
gastroenteritis.
- Sample containing detergent as preservative agent could give rise to false negative
results, because of the low quantity of virus. These samples should not be used

Results

125 samples tested against ELISA and results have been observed by 6 different people
38 samples are ELISA positive and 87 are ELISA negative (Adeno)

1/ Coris Adeno

34 are Strip positive
91 are Strip negative

2/ Adeno Novamed

38 samples are strip positive (3 of them are false positive)
87 are Strip negative

3/ Adeno Combisticks (Novamed)

42 samples are positive (12 are false positives)

Following manufacturer instructions, each signal observed on the sticks should be
regarded as positive. By the way, all results recorded with a +/- have been granted with a
positive answer.

Conclusions

The Adeno-Strip from Coris gives the best results for the Adeno detection while the
Novamed Combi is better for the Rotavirus detection.
Nevertheless, since the Novamed Combi is aimed to the detection of both Adenovirus and
Rotavirus and since this latter gives poor results, we must decide that this test does not
fulfil the requirements for a combined test.