

Rapid opinion 16-2019 of the Scientific Committee established at the FASFC regarding an application for approval of screening methods for the analysis of inhibitory substances in the context of the official determination of the quality and composition of milk

Background & Terms of reference

As the production of a number of rapid tests currently used by the Interprofessional Organisms (IO) for the screening of inhibitory substances in raw milk can no longer be guaranteed, the Scientific Committee has been asked to give advice on the recognition of following rapid tests commercialized by the firm Shenzhen Bioeasy Biotechnology Co, LTD:

- 2IN1BTCef as an alternative to the β eta-s.t.a.r. combo V1.0 test (Neogen Corporation),
- 3IN1 BST as an alternative to the Trisensor Milk test (Unisensor s.a.),
- AMINO 3IN1 as an alternative to the 4-Aminosensor test kit (Unisensor s.a.), and
- MACRO 3IN1 as an alternative to the Tylosensor Milk test (Unisensor s.a.).

Method

The opinion is based on the validation reports of fast screening methods for inhibitory substances in raw milk established by the Institute for Agricultural and Fisheries Research (ILVO), i.e. the national reference laboratory for milk and dairy products, as well as on expert opinion.

Conclusion

The proposed rapid tests can be used as an alternative to the tests currently used in the analytical scheme for the screening of β -lactam compounds, of tetracyclines and sulfonamides, of aminoglycosides and of macrolides in raw milk, provided that there are sufficient guarantees from the supplier about the quality and reproducibility of these tests.

Recommendation

However, in the context of this opinion, the Scientific Committee would like to indicate that there are a number of shortcomings in the analytical scheme for the screening of inhibitory substances in raw milk, amongst others with respect to the detection of quinolones. It is therefore recommended to re-evaluate the analytical scheme, in particular the screening by means of the Delvotest T, for which alternative rapid tests with a wider detection spectrum of inhibitors should be considered.

The full text is available on this website in dutch and in french.