

P.14.- Comparative evaluation of the Bio-Rad TeSeE and Platelia assay formats

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The practicability of the Bio-Rad BSE screening assay procedure has been improved. The new TeSeE™ assay format can be easily automated.

The following modifications were introduced:

- Packaging: 2 kits (TeSeE™ Purification and TeSeE™ Detection kits) for 2x 96determinations instead of 3 kits (BSE Purification, PK and Platelia BSE) for 1x96 determinations.
- Reactional volumes: decreasing reactional volume of reagents A, B and C to perform the purification steps in micro-test tube or in Deepwell Microplate format to partially or fully automate the different steps of the procedure.

The presented data were obtained during comparative studies performed on positive and negative sample panels tested manually or semi-automatically, with the Platelia™ and TeSeE™ assay formats.

Comparative evaluation performed between the Platelia™ and TeSeE™ assay formats demonstrated similar results in term of sensitivity when tested with all panels of positive sample dilutions (2 bovine panels and one ovine panel).

The specificity was evaluated on a population of 5343 negative bovine samples. No 1st intention false positive results were observed when testing the samples with the semi automatic system (TeSeE™ NSP). The OD distribution of the negative samples was also improved with the semi automated protocol.

On the 1058 samples manually tested with both Platelia™ and TeSeE™ assays, similar results and OD repartition were observed (1st intention results).

This comparative evaluation clearly demonstrated that the performances were equivalent between the TeSeE™ and the Platelia™ BSE kits. Based on the data obtained during the evaluation, it was also clear that the performance level was equal when testing the samples manually or with the semi automatic system (TeSeE™ NSP and DW40).

Note: The TeSeE™ assay format has been tested and validated with obex, retropharyngean lymph node from mule deer and elk animals.]

Keywords

Evaluation, rapid tests, TSE