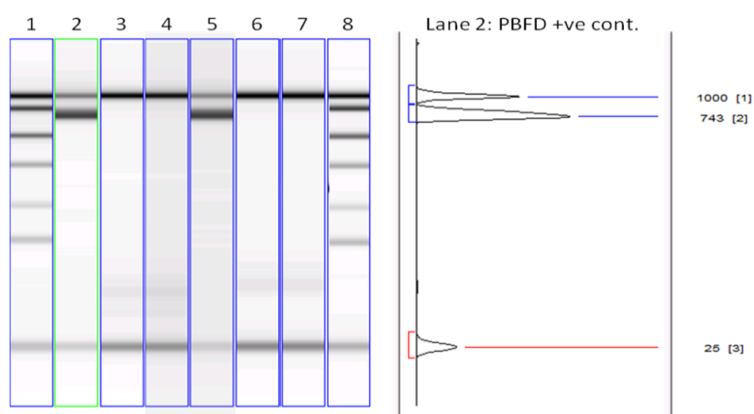


Veterinary diagnostics – Efficient avian PBFD PCR analysis.

**Tape Used**

ScreenTape D800

Total time to result for**7 samples** 10 minutes**Sample volume per test** 1 µl**Analysis Results** GLP

standard report and print-out

ScreenTape® allows fast and reproducible analysis of avian Psittacine Beak and Feather Disease (PBFD) PCR tests. Gel analysis and GLP test reporting can be done in a 10 minute, automated, hands-free procedure without any reagent or gel preparation. ScreenTape reduces overall laboratory test turn-around time for PCR analysis and therefore improves customer service.

Introduction

The PBFD virus is very infectious and can be rapidly transmitted through bird colonies causing considerable damage and loss. Fast diagnosis through targeted screening programs is essential to manage effective quarantine measures.

Materials and Methods used in PCR

A viral DNA extraction was performed on bird faeces or bird feathers and the product was used in a proprietary PCR, using PBFD specific primers.

ScreenTape DNA Analysis Procedure

Samples from the PCR block were mixed 1:4 with Lab901 loading buffer and placed in the TapeStation™ with ScreenTape D800. After clicking “START” on the software driven menu, full analysis of the samples was achieved and archived in GLP format, with no user intervention, within 10 minutes.

Results

Analysed results are simple to visualise and band sizes for each of the PCR products are automatically highlighted and reported. Samples in lanes 2 (positive control), and 5 show fragments of around 740 bp, that are diagnostic of PBFD, whereas samples in lanes 3 (negative control), 4, 6 and 7 that do not show any amplicons are free from infection.

Advantages of using ScreenTape for PBFD PCR analysis

The ScreenTape system allows significant time saving in veterinary diagnostics laboratories for PBFD PCR analysis, by providing a fully automated, walk-away solution. No reagent preparation is needed and the use of Ethidium Bromide is eliminated, thus providing a safe and efficient PCR analysis procedure. Data on the presence or absence of PBFD for each customer sample is automatically archived and easily retrieved. GLP-grade reports can be saved and printed following a one-click procedure.