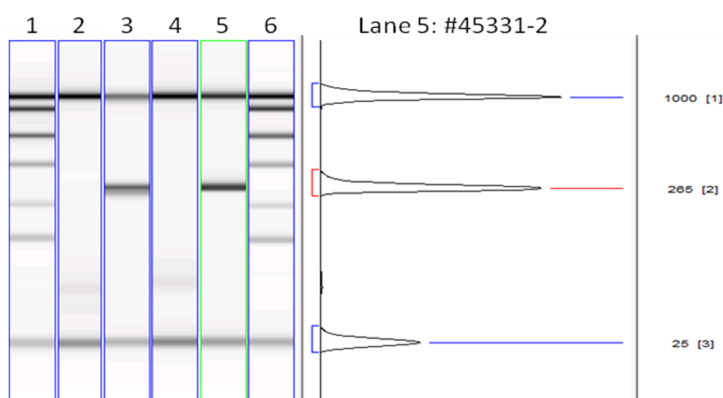


Veterinary diagnostics – Chlamydia PCR analysis with ScreenTape®

**Tape Used**

ScreenTape D800

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

GLP standard report and print-out

ScreenTape allows fast analysis of avian Chlamydia PCR tests. The bottleneck of gel analysis and test reporting is removed thanks to a 10 minute, automated, hands-free step without any reagent or gel preparation. Customer results are delivered in a GLP standard report in record time, therefore improving laboratory test turn-around time and improving customer service.

Introduction

Chlamydia is a reportable, acute or chronic infectious disease of certain poultry, cage, wild and migratory birds. The disease is zoonotic and can affect people severely. Fast diagnosis through targeted screening programs is essential to manage appropriate therapy and effective quarantine measures.

Materials and Methods used in PCR

DNA was extracted from bird faeces and used in a proprietary PCR, using Chlamydia 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, with no user intervention, within 10 minutes.

Results

Analysed results are visualised immediately, highlighting band sizes for each of the PCR reactions. Samples in lanes 3 (positive control), and 5 show fragments of 265 bp, that are diagnostic of Chlamydia infection, whereas samples in lanes 2 (negative control) and 4 that do not show any amplicons are free from infection. Highlighting lane 5 shows the electropherogram for sample #45331-2, demonstrating that sample references are preserved throughout the software.

Advantages of using ScreenTape for Chlamydia PCR analysis

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