



Molecular diagnostic testing for animals.

Assay Results Report 20101602

Fax to:

E-mail to: ferrets@tripleffarms.com

Hard copy to:

Date results transmitted: 26oct20

| | |
|--------------------------------|----------------------------|
| Client: Triple F Farms | Client #: 1312121 |
| Contact name: Jack Fallenstein | PO #: per Jack Fallenstein |
| Date samples received: 16oct20 | |

Initials JH

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| Client sample ID | Zoologix accession ID | Sample type | Assay | Assay result |
|------------------|-----------------------|------------------------------|-------|-----------------|
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0006 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0035 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0040 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0045 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0094 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0095 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0096 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0097 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | B0098 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | P0008 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | S0077 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | S0118 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | S0130 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | S0185 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | X0002 | Negative |
| Barn 11 | 2010160020 | 3 oral swabs + 3 fecal swabs | X0017 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0006 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0035 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0040 | Negative |

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| Client sample ID | Zoologix accession ID | Sample type | Assay | Assay result |
|------------------|-----------------------|------------------------------|-------|-----------------|
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0045 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0094 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0095 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0096 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0097 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | B0098 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | P0008 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | S0077 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | S0118 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | S0130 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | S0185 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | X0002 | Negative |
| Barn 12 | 2010160021 | 3 oral swabs + 3 fecal swabs | X0017 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0006 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0035 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0040 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0045 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0094 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0095 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0096 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0097 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | B0098 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | P0008 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | S0077 | Negative |

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| Client sample ID | Zoologix accession ID | Sample type | Assay | Assay result |
|------------------|-----------------------|------------------------------|-------|-----------------|
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | S0118 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | S0130 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | S0185 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | X0002 | Negative |
| Barn 13 | 2010160022 | 3 oral swabs + 3 fecal swabs | X0017 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0006 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0035 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0040 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0045 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0094 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0095 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0096 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0097 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | B0098 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | P0008 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | S0077 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | S0118 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | S0130 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | S0185 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | X0002 | Negative |
| Barn 14 | 2010160023 | 3 oral swabs + 3 fecal swabs | X0017 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0006 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0035 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0040 | Negative |

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| Client sample ID | Zoologix accession ID | Sample type | Assay | Assay result |
|------------------|-----------------------|------------------------------|-------|-----------------|
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0045 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0094 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0095 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0096 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0097 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | B0098 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | P0008 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | S0077 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | S0118 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | S0130 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | S0185 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | X0002 | Negative |
| Barn 15 | 2010160024 | 3 oral swabs + 3 fecal swabs | X0017 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0006 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0035 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0040 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0045 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0094 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0095 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0096 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0097 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | B0098 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | P0008 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | S0077 | Negative |

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| Client sample ID | Zoologix accession ID | Sample type | Assay | Assay result |
|------------------|-----------------------|------------------------------|-------|-----------------|
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | S0118 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | S0130 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | S0185 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | X0002 | Negative |
| Barn 16 | 2010160025 | 3 oral swabs + 3 fecal swabs | X0017 | Negative |

Initials 

| Client sample ID | Zoologix accession ID | Sample type | Assay | Assay result |
|------------------|-----------------------|-------------|-------|--------------|
|------------------|-----------------------|-------------|-------|--------------|

Assay descriptions and notes

Assay B0006: Qualitative screen for *Campylobacter* by ultrasensitive real time PCR. Assay detects but does not differentiate *Campylobacter jejuni*, *C. coli* and *C. lari*.

Assay B0035: Ultrasensitive qualitative detection of *Lawsonia intracellularis* by real time PCR

Assay B0040: Ultrasensitive qualitative detection of *Salmonella* by real time PCR

Assay B0045: Ultrasensitive qualitative detection of *Pasteurella multocida* by real time PCR

Assay B0094: Ultrasensitive qualitative detection of *Staphylococcus xylosus* by real time PCR

Assay B0095: Ultrasensitive qualitative detection of *Staphylococcus aureus* by real time PCR

Assay B0096: Ultrasensitive qualitative detection of *Mycoplasma mustelae* by real time PCR

Assay B0097: Ultrasensitive qualitative detection of *Helicobacter mustelae* by real time PCR

Assay B0098: Ultrasensitive qualitative detection of *Streptococcus* (including beta hemolytic groups B/C/G and *Strep pneumoniae*) by real time PCR

Assay P0008: Ultrasensitive *Cryptosporidium* species screen by real time PCR. This assay detects but does not differentiate *Cryptosporidium* species.

Assay S0077: Ultrasensitive qualitative detection of influenza virus by reverse transcription coupled real time PCR. This assay detects but does not differentiate most known strains of influenza A viruses, including H5N1, H5N2, H1N1, H2N2, H3N8, H4N6, H7N7, H8N4 and H9N2.

Assay S0118: Ultrasensitive qualitative detection of Aleutian disease virus by real time PCR

Assay S0130: Ultrasensitive qualitative rotavirus screen by reverse transcription coupled real time PCR. Assay detects but does not differentiate many common strains of rotavirus.

Assay S0185: Ultrasensitive detection of ferret respiratory enteric coronavirus by reverse transcription coupled real time PCR

Assay X0002: Ultrasensitive qualitative detection of *Toxoplasma gondii* by real time PCR

Assay X0017: Ultrasensitive qualitative detection of *Giardia* by real time PCR

Zoologix has verified the performance characteristics of these tests. However, diagnosis and management of the animal patient should not rely solely upon the results of these tests, as unusual genetic variations of the pathogen can affect results. Correlation with other clinical data is recommended. Specimens will be held for six months by Zoologix to facilitate followup testing, after which time specimens will be disposed of at the discretion of Zoologix unless otherwise directed by client.