

MERS-CoV Infection of Alpaca in a Region Where MERS-CoV is Endemic

Technical Appendix

Technical Appendix Table. Overview of background data and study results of alpaca and dromedary cohorts.

Animal	Age†	Sex	Origin	Array‡		MERS-CoV	PCR UpE§		
				MERS-CoV	SARS-CoV	PRNT ₉₀	NS	OS	AS
Alpaca									
A1	Adult	M	Qatar	287	<20	80	Neg	Neg	Neg
A2	Adult	F	Qatar	122	<20	40	ND	ND	ND
A3	Adult	M	UK	135	<20	80	Neg	Neg	Neg
A4	Adult	M	Qatar	118	<20	80	Neg	Neg	Neg
A5	Juvenile	F	Qatar	403	<20	320	ND	ND	ND
A6	Adult	F	Qatar	275	<20	80	ND	ND	ND
A7	Adult	M	UK	509	<20	320	Neg	ND	Neg
A8	Adult	M	Qatar	49	<20	80	Neg	Neg	Neg
A9	Adult	M	Qatar	265	<20	320	Neg	Neg	Neg
A10	Adult	M	Qatar	451	<20	160	Neg	Neg	Neg
A11	Adult	F	Canada	513	<20	320	ND	ND	ND
A12	Adult	F	Canada	629	<20	320	ND	ND	ND
A13	Adult	F	Canada	117	<20	80	ND	ND	ND
A14	Adult	F	Canada	513	<20	320	ND	ND	ND
A15	Adult	F	UK	773	<20	320	ND	ND	ND
Dromedary									
D1	Adult	F	Unknown	≥1280	<20	≥2560	Neg	ND	ND
D2	Adult	F	Unknown	≥1280	<20	≥2560	Neg	ND	ND
D3	Adult	F	Unknown	≥1280	<20	≥2560	Neg	ND	ND
D4	Adult	F	Unknown	≥1280	<20	≥2560	Neg	ND	ND
D5	Adult	F	Unknown	≥1280	<20	640	Neg	ND	ND
D6	Adult	F	Unknown	≥1280	<20	1280	Neg	ND	ND
D7	Adult	F	Unknown	≥1280	<20	1280	Neg	ND	ND
D8	Adult	F	Unknown	≥1280	<20	≥2560	Neg	ND	ND
D9	Adult	F	Unknown	<20	<20	<20	Neg	ND	ND
D10	Adult	M	Unknown	≥1280	<20	640	Neg	ND	ND

*MERS-CoV, Middle East respiratory syndrome coronavirus; Neg, negative result, ND, not done; NS, nasal swab, OS, oral swab, PRNT₉₀: plaque reduction neutralization test (highest neutralizing serum dilution indicated); RS, rectal swab, RT-PCR, reverse transcription PCR; SARS-CoV, severe acute respiratory syndrome coronavirus; UK, United Kingdom.

†Juvenile = camelid age ≤2 years; adult = camelid age >2 years.

‡S1 microarray titers. Titers were defined as the interpolated serum concentration that provoked a response half-way on a concentration-response curve between the minimum and maximum signal and were calculated from the inflection point of a 4-step dilution series (1:20 to 1:1280), as previously described (1).

§Results RT-PCR targeting MERS-CoV UpE gene.

