



Anses – Dozulé laboratory for equine diseases

European Union Reference Laboratory

UNIT : VIPARE

Equine diseases other than African horse sickness

INTERLABORATORY PROFICIENCY TEST FINAL REPORT

FR-X402-2018-00

Dourine serological diagnosis

Date of ILPT: 2018-05

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Dourine serological diagnosis

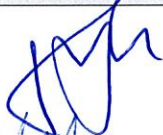





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1. INTRODUCTION

The Inter-Laboratory Proficiency Test (ILPT) about Dourine serological diagnosis has been ordered by the Directorate General for Health and Food Safety (DG SANTE) of the European Commission (EC).

The ILPT goal is to detect antibodies against *Trypanosoma equiperdum* and to evaluate the performance of the National Reference Laboratories (NRLs) from European Union (EU) and from third countries.

2. GENERAL INFORMATION

VIPARE unit of the Anses-Dozulé Laboratory for equine diseases (France) organized the Dourine serological diagnosis ILPT. The ILPT coordinator is Delphine GAUDAIRE. Aymeric HANS, Laurent HÉBERT, Fanny LECOUTURIER, Anthony MADELINE and Jessy VANDEKERKHOVE participated to the preparation and organization of this ILPT.

2.1 INSTRUCTION TO PARTICIPANTS

An organization letter, a registration form as well as information on the ILPT organization were sent by e-mail on May 17th 2018 to thirty three (33) laboratories, including twenty three (23) laboratories known as NRL for Dourine in EU.

2.2 DEVELOPMENT AND IMPLEMENTATION OF ILPT

Twenty seven (27) laboratories out of 33 have accepted to participate to this ILPT. NRLs from Bulgaria and Sweden did not want to participate or did not send back their registration form.

A letter code has been assigned to each participating laboratory to ensure a blind analysis of results.

SAMPLES AND ANALYTICAL METHOD:

Samples sent for analysis were sera containing or not antibodies directed against *Trypanosoma equiperdum*.

As described in the OIE terrestrial manual chapter 2.5.3 (2013), Dourine serological diagnosis can be performed using the complement fixation test (CFT). Other serological methods may be used in parallel as indirect fluorescent antibody test (IFAT) and/or enzyme-linked immunosorbent assay (ELISA).

SAMPLES SHIPMENT AND RESULTS COLLECTION

20 lyophilized sera samples were sent at room temperature to each NRL in EU on June 12th 2018, except for one NRL in EU which sent back its registration form after the due date (sample panel for this participant has been sent on June 25th 2018).

All parcels have been delivered 24 to 72 hours later in good conditions and no anomaly was reported on samples status upon arrival.

Results were due to by July 6th 2018. All participating laboratories sent back their results form by the due date except for two participants (lab code: 18-P and 18-U).

3. PROFICIENCY TEST ITEMS

3.1 PREPARATION OF THE PROFICIENCY TEST ITEMS

Sera samples were collected from horses tested negative and positive for the presence of antibodies anti-*Trypanosoma equiperdum* using the CFT. Positive samples were obtained from experimental immunization. .

Each panel of samples sent to participating laboratories was composed of 20 samples:

- Negative samples were made from a mix of negative horse sera.
- Positive serum "Teva" were originated from a mare immunized by *T. equiperdum* Teva strain antigens. These sera have, either been included pure, or 1/2 and 1/4 diluted in a mix of negative horse sera to obtain strong, medium and weak signals.
- Positive serum "Rotat 1.2" were originated from a mare immunized by *T. evansi* RoTat 1.2 strain antigens. These sera have either been included pure or 1/2 and 1/4 diluted in a mix of negative horse sera to obtain strong, medium and weak signals.

Here is the description of a sample panel used in the ILPT scheme:

Sample ref	Serum origin	Serum Dilution	Qualitative result	Indicative titer	
				Dil	Hemolysis
1 to 7	Negative	Pur	Neg	5	0
8	Rotat 1.2	Pur	Positive	40	2+
9 and 10	Rotat 1.2	1/2	Positive	20	2+
11, 12 and 13	Teva	Pur	Positive	80	2+
14 and 15	Rotat 1.2	1/4	Positive	10	2+
15 and 17	Teva	1/2	Positive	40	2+
18, 19 and 20	Teva	1/4	Positive	20	2+

For each sample, 500 µl of serum was lyophilized then kept at +2-8 °C until shipment.

3.2 IDENTIFICATION OF THE PROFICIENCY TEST ITEMS

Samples were labelled as follows: "Year - Lab code - random numerical coding composed of 1-3 digits" (See Appendix 1).

3.3 HOMOGENEITY

Homogeneity has been tested according to the recommendations described in NF ISO 13528 and validated for each produced batch.

3.4 STABILITY

To test the stability of each produced batch, lyophilized sera were incubated at +30 °C for 3 weeks. Dourine CFT results obtained after this incubation time were consistent with those obtained when sera were tested after fresh preparation.

4. RESULTS EVALUATION OF PARTICIPATING LABORATORIES

TABLES

Qualitative results obtained by participating laboratories are shown in table 1 (CFT results) and table 3 (IFAT results).

RESULTS ANALYSIS

The following criteria were applied to determine whether ILPT results were satisfactory:

- All negative sera should be found as such
- All positive sera should be found as such
- Only one mistake out of 24 samples was accepted.

RESULTS OF PARTICIPATING LABORATORIES

Results using CFT

Given the above criteria, laboratories A, B, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, W, X, Y, AN and AO (24 out of 27 participating laboratories) gave satisfactory qualitative results. Two laboratories O and V gave unsatisfactory results (see table 1).

Results using IFAT

Given the above criteria, laboratories E, I and K (3 out of 4 participating laboratories) gave satisfactory qualitative results. The laboratory J gave unsatisfactory results (see table 1).

5. CONCLUSIONS

Regardless of the performed test, laboratories J and V exhibited a lack of specificity. Indeed, laboratory J obtained one positive result whereas this sample (#1) should have been analyzed as negative and laboratory found all expected negative samples either positive (samples#2, 4, 6, 7 and 8) or suspicious (samples#1, 3 and 5).

According to their results, laboratories O and V exhibited a lack of sensitivity since they analyzed three expected positive samples (lab O, samples#18 to 20) and one expected positive sample (lab V, sample#15) as negative.

Overall, the results obtained by the European NRL network exhibited a very good specificity and sensitivity. Indeed, data analysis, among the NRLs that used CFT, showed that 96.1% and 92.8% of them were able to detect all negative and positive samples, respectively. Among the NRLs that used IFAT, the specificity and the sensitivity in this ILPT was 92.8% and 93.9%, respectively.

A training session will be proposed to the laboratories that did not obtained satisfactory results.

6. ANNEXES

Appendix 1: Samples identification code table per laboratory code.

Table 1: Qualitative results using the CFT

Table 2: Quantitative results using the CFT

Table 3: Qualitative results using the IFAT

Table 4: Quantitative results using the IFAT

Appendix 1: Samples identification code table per laboratory code.

Lab code /Sample #	18-A-	18-B-	18-C-	18-D-	18-E-	18-F-	18-G-	18-H-	18-I-	18-J-	18-K-	18-L-	18-M-	18-N-
1	18-A-552	18-B-546	18-C-155	18-D-121	18-E-126	18-F-811	18-G-799	18-H-90	18-I-287	18-J-371	18-K-641	18-L-218	18-M-486	18-N-589
2	18-A-762	18-B-579	18-C-463	18-D-275	18-E-780	18-F-191	18-G-424	18-H-530	18-I-100	18-J-567	18-K-227	18-L-356	18-M-284	18-N-574
3	18-A-482	18-B-288	18-C-114	18-D-406	18-E-612	18-F-411	18-G-594	18-H-582	18-I-541	18-J-700	18-K-584	18-L-474	18-M-813	18-N-745
4	18-A-58	18-B-1	18-C-264	18-D-75	18-E-131	18-F-251	18-G-649	18-H-655	18-I-87	18-J-640	18-K-631	18-L-209	18-M-221	18-N-271
5	18-A-181	18-B-76	18-C-607	18-D-389	18-E-241	18-F-565	18-G-650	18-H-772	18-I-236	18-J-494	18-K-166	18-L-528	18-M-401	18-N-374
6	18-A-386	18-B-450	18-C-536	18-D-473	18-E-178	18-F-795	18-G-81	18-H-593	18-I-357	18-J-233	18-K-534	18-L-432	18-M-297	18-N-138
7	18-A-543	18-B-672	18-C-68	18-D-299	18-E-18	18-F-469	18-G-370	18-H-519	18-I-295	18-J-664	18-K-714	18-L-522	18-M-272	18-N-208
8	18-A-375	18-B-732	18-C-19	18-D-493	18-E-80	18-F-88	18-G-224	18-H-496	18-I-62	18-J-467	18-K-675	18-L-40	18-M-266	18-N-821
9	18-A-446	18-B-162	18-C-578	18-D-458	18-E-50	18-F-16	18-G-25	18-H-378	18-I-738	18-J-97	18-K-701	18-L-587	18-M-400	18-N-769
10	18-A-177	18-B-278	18-C-716	18-D-98	18-E-600	18-F-280	18-G-36	18-H-116	18-I-421	18-J-213	18-K-644	18-L-134	18-M-549	18-N-680
11	18-A-533	18-B-380	18-C-265	18-D-508	18-E-327	18-F-782	18-G-746	18-H-165	18-I-596	18-J-245	18-K-526	18-L-94	18-M-405	18-N-737
12	18-A-77	18-B-223	18-C-622	18-D-368	18-E-246	18-F-656	18-G-349	18-H-70	18-I-765	18-J-575	18-K-256	18-L-764	18-M-809	18-N-492
13	18-A-93	18-B-499	18-C-79	18-D-670	18-E-82	18-F-715	18-G-286	18-H-333	18-I-305	18-J-313	18-K-583	18-L-537	18-M-344	18-N-444
14	18-A-523	18-B-30	18-C-44	18-D-259	18-E-724	18-F-792	18-G-686	18-H-373	18-I-277	18-J-292	18-K-484	18-L-719	18-M-572	18-N-330
15	18-A-348	18-B-479	18-C-31	18-D-283	18-E-520	18-F-310	18-G-477	18-H-164	18-I-347	18-J-3	18-K-85	18-L-449	18-M-681	18-N-152
16	18-A-51	18-B-408	18-C-654	18-D-337	18-E-676	18-F-336	18-G-736	18-H-23	18-I-184	18-J-447	18-K-142	18-L-627	18-M-167	18-N-395
17	18-A-339	18-B-679	18-C-810	18-D-521	18-E-163	18-F-338	18-G-455	18-H-388	18-I-472	18-J-684	18-K-806	18-L-222	18-M-569	18-N-203
18	18-A-11	18-B-779	18-C-52	18-D-71	18-E-427	18-F-588	18-G-825	18-H-238	18-I-67	18-J-648	18-K-205	18-L-785	18-M-553	18-N-296
19	18-A-89	18-B-101	18-C-757	18-D-663	18-E-360	18-F-317	18-G-573	18-H-506	18-I-42	18-J-29	18-K-698	18-L-468	18-M-39	18-N-786
20	18-A-480	18-B-597	18-C-748	18-D-485	18-E-300	18-F-538	18-G-394	18-H-53	18-I-668	18-J-815	18-K-206	18-L-122	18-M-592	18-N-797

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ILPT REPORT # FR-X402-2018-00

Lab code /Sample #	18-O-	18-P-	18-Q-	18-R-	18-S-	18-T-	18-V-	18-W-	18-X-	18-Y-	18-AD-	18-AN-	18-AO-
1	18-O-617	18-P-334	18-Q-633	18-R-147	18-S-690	18-T-312	18-V-548	18-W-392	18-X-204	18-Y-21	18-AD-460	18-AN-145	18-AO-808
2	18-O-827	18-P-20	18-Q-83	18-R-638	18-S-532	18-T-216	18-V-35	18-W-577	18-X-502	18-Y-17	18-AD-435	18-AN-56	18-AO-490
3	18-O-488	18-P-599	18-Q-341	18-R-438	18-S-452	18-T-291	18-V-369	18-W-234	18-X-605	18-Y-124	18-AD-720	18-AN-170	18-AO-443
4	18-O-244	18-P-143	18-Q-413	18-R-514	18-S-409	18-T-61	18-V-359	18-W-454	18-X-144	18-Y-396	18-AD-354	18-AN-260	18-AO-96
5	18-O-601	18-P-254	18-Q-331	18-R-60	18-S-441	18-T-318	18-V-544	18-W-298	18-X-498	18-Y-763	18-AD-510	18-AN-125	18-AO-708
6	18-O-304	18-P-429	18-Q-515	18-R-563	18-S-229	18-T-556	18-V-308	18-W-210	18-X-692	18-Y-635	18-AD-4	18-AN-504	18-AO-721
7	18-O-651	18-P-230	18-Q-65	18-R-239	18-S-324	18-T-459	18-V-717	18-W-559	18-X-252	18-Y-157	18-AD-751	18-AN-791	18-AO-652
8	18-O-285	18-P-175	18-Q-322	18-R-78	18-S-709	18-T-156	18-V-456	18-W-798	18-X-132	18-Y-104	18-AD-629	18-AN-270	18-AO-542
9	18-O-794	18-P-86	18-Q-547	18-R-643	18-S-64	18-T-186	18-V-214	18-W-418	18-X-524	18-Y-307	18-AD-343	18-AN-220	18-AO-197
10	18-O-561	18-P-639	18-Q-628	18-R-228	18-S-753	18-T-26	18-V-128	18-W-636	18-X-217	18-Y-351	18-AD-139	18-AN-660	18-AO-775
11	18-O-777	18-P-95	18-Q-171	18-R-249	18-S-497	18-T-621	18-V-176	18-W-602	18-X-611	18-Y-148	18-AD-383	18-AN-742	18-AO-513
12	18-O-387	18-P-527	18-Q-693	18-R-653	18-S-232	18-T-154	18-V-818	18-W-49	18-X-804	18-Y-153	18-AD-531	18-AN-414	18-AO-507
13	18-O-816	18-P-194	18-Q-585	18-R-428	18-S-710	18-T-46	18-V-512	18-W-66	18-X-430	18-Y-730	18-AD-687	18-AN-671	18-AO-108
14	18-O-784	18-P-608	18-Q-647	18-R-193	18-S-361	18-T-102	18-V-391	18-W-461	18-X-618	18-Y-311	18-AD-309	18-AN-516	18-AO-267
15	18-O-713	18-P-321	18-Q-250	18-R-749	18-S-685	18-T-353	18-V-801	18-W-525	18-X-677	18-Y-407	18-AD-187	18-AN-12	18-AO-274
16	18-O-54	18-P-453	18-Q-726	18-R-196	18-S-43	18-T-48	18-V-367	18-W-540	18-X-689	18-Y-509	18-AD-566	18-AN-290	18-AO-614
17	18-O-529	18-P-106	18-Q-33	18-R-161	18-S-302	18-T-22	18-V-226	18-W-47	18-X-27	18-Y-820	18-AD-740	18-AN-645	18-AO-778
18	18-O-624	18-P-551	18-Q-6	18-R-404	18-S-32	18-T-263	18-V-422	18-W-711	18-X-146	18-Y-423	18-AD-329	18-AN-112	18-AO-115
19	18-O-603	18-P-109	18-Q-706	18-R-630	18-S-783	18-T-393	18-V-199	18-W-606	18-X-8	18-Y-173	18-AD-776	18-AN-659	18-AO-741
20	18-O-616	18-P-211	18-Q-787	18-R-397	18-S-505	18-T-262	18-V-586	18-W-756	18-X-73	18-Y-683	18-AD-34	18-AN-7	18-AO-24

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Table 1: Qualitative results using the CFT

LAB CODE /SAMPLE #	18-A	18-B	18-C	18-D	18-E	18-F	18-G	18-H	18-I	18-K	18-L	18-M	18-N	18-O	EXPECTED RESULT
1	Negative	NEG	NEG	NEGATIVE	NEGATIVE	Neg	N	NEGATIVE	N	-ve	NEGATIVE	N	Negative	Negative	Negative
2	Negative	NEG	NEG	NEGATIVE	NEGATIVE	Neg	N	NEGATIVE	N	-ve	NEGATIVE	N	Negative	Negative	Negative
3	Negative	NEG	NEG	NEGATIVE	NEGATIVE	Neg	N	NEGATIVE	N	-ve	NEGATIVE	N	Negative	Negative	Negative
4	Negative	NEG	NEG	NEGATIVE	NEGATIVE	Neg	N	NEGATIVE	N	-ve	NEGATIVE	N	Negative	Negative	Negative
5	Negative	NEG	NEG	NEGATIVE	NEGATIVE	Neg	N	NEGATIVE	N	-ve	NEGATIVE	N	Negative	Negative	Negative
6	Negative	NEG	NEG	NEGATIVE	NEGATIVE	Neg	N	NEGATIVE	N	-ve	NEGATIVE	N	Negative	Negative	Negative
7	Negative	NEG	NEG	NEGATIVE	NEGATIVE	Neg	N	NEGATIVE	N	-ve	NEGATIVE	N	Negative	Negative	Negative
8	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Positive	Positive
9	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Positive	Positive
10	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Positive	Positive
11	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Positive	Positive
12	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Positive	Positive
13	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Positive	Positive
14	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Suspicious	Positive
15	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	-ve	POSITIVE	P	Positive	Suspicious	Positive
16	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Suspicious	Positive
17	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Suspicious	Positive
18	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Negative	Positive
19	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Negative	Positive
20	Positive	POS	POS	POSITIVE	POSITIVE	Pos	P	POSITIVE	P	+ve	POSITIVE	P	Positive	Negative	Positive

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LAB CODE /SAMPLE #	18-P	18-Q	18-R	18-S	18-T	18-V	18-W	18-X	18-Y	18-AD	18-AN	18-AO	EXPECTED RESULT
1	Negative	Negative	negative	Negative	Negative	Suspect	Negative	Neg.	negative	Negative	Neg	NEGATIF	Negative
2	Negative	Negative	negative	Negative	Negative	Positive	Negative	Neg.	negative	Negative	Neg	NEGATIF	Negative
3	Negative	Negative	negative	Negative	Negative	Suspect	Negative	Neg.	negative	Negative	Neg	NEGATIF	Negative
4	Negative	Negative	negative	Negative	Negative	Positive	Negative	Neg.	negative	Negative	Neg	NEGATIF	Negative
5	Negative	Negative	negative	Negative	Negative	Suspect	Negative	Neg.	negative	Negative	Neg	NEGATIF	Negative
6	Negative	Negative	negative	Negative	Negative	Positive	Negative	Neg.	negative	Negative	Neg	NEGATIF	Negative
7	Negative	Negative	negative	Negative	Negative	Positive	Negative	Neg.	negative	Negative	Neg	NEGATIF	Negative
8	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
9	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
10	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
11	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
12	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
13	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
14	Positive	Positive	positive	Positive	Positive	Negative	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
15	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
16	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
17	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	NEGATIF	Positive
18	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
19	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive
20	Positive	Positive	positive	Positive	Positive	Positive	Positive	Positive	positive	Positive	Pos	POSITIF	Positive

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Table 2: Quantitative results using the CFT

LAB CODE /SAMPLE #	18-A	18-B	18-C	18-D	18-E	18-F	18-G	18-H	18-I	18-K	18-L	18-M	18-N	18-O	EXPECTED TITRE	TITRE RANGE
8	1/160	1/40 3+	1:80 ++	1/80	1:40	1/40	1/160	3/20; 1/40	1+20	1/10	1/40 (2+)	2+/80	2+/40	1/40 1+	40	20-80
9	3/40	1/20 3+	1:40 +	1/20	1:20	1/20	1/80 (2)	3/10; 1/20	3+5	1/5	1/20 (2+)	3+/40	4+/10	1/10 1+	20	10-40
10	4/40	1/20 3+	1:40 +	1/40	1:20	1/20	1/80	2/20	4+5	1/5	1/20 (3+)	2+/40	4+/10	1/10 1+	20	10-40
11	3/80	1/80 3+	1:80 +++	1/80	1:80	1/80	1/160	4/40; 1/80	3+40	1/80	1/40 (3+)	3+/160	2+/80	1/20 1+	80	40-160
12	2/160	1/80 2+	1:80 ++	1/80	1:80	1/80	1/80	4/40; 1/80	3+40	1/80	1/40 (2+)	3+/160	3+/40	1/40 1+	80	40-160
13	2/160	1/80 3+	1:80 +++	1/80	1:80	1/80	1/80	2/40	3+40	1/80	1/40 (2+)	3+/160	3+/40	1/10 1+	80	40-160
14	2/20	1/20 1+	1:20 +++	1/10	1:10	1/10	1/40	3/5; 1/10	2+5	1/5	1/10 (2+)	2+/20	3+/5	1/5 1+	10	5-20
15	3/20	1/20 1+	1:20 ++	1/10	1:10	1/10	1/40	3/5; 1/10	1+5	1/10	1/10 (2+)	2+/20	2+/10	1/5 1+	10	5-20
16	4/40	1/40 3+	1:40 +++	1/40	1:40	1/40	1/80 (2)	3/20; 1/40	1+40	1/40	1/20 (2+)	2+/80	2+/20	1/5 1+	40	20-80
17	3/40	1/40 3+	1:40 +++	1/40	1:40	1/40	1/40	1/20	3+20	1/80	1/40 (1+)	3+/160	2+/20	1/5 1+	40	20-80
18	2/20	1/40 1+	1:20 ++	1/20	1:20	1/20	1/20	2/10	1+20	1/40	1/10 (3+)	2+/40	3+/5	< 1/5	20	10-40
19	3/20	1/20 3+	1:20 +++	1/20	1:20	1/20	1/40	2/10	1+20	1/40	1/10 (3+)	2+/40	4+/5	< 1/5	20	10-40
20	4/20	1/20 3+	1:20 +++	1/20	1:20	1/20	1/20	4/10	4+10	1/40	1/20 (1+)	2+/40	4+/5	< 1/5	20	10-40

LAB CODE /SAMPLE #	18-P	18-Q	18-R	18-S	18-T	18-V	18-W	18-X	18-Y	18-AD	18-AN	18-AO	EXPECTED TITRE	TITRE RANGE
8	1:40 3+	1/5: 4+, 1/10: 4+	2+(1/40)	1/40 2+	1:80 (1+)	1:10 (2+)	1:40 +	1:80 (++)	1:80	80	2+ 1/80	1:40	40	20-80
9	1:20 3+	1/5: 4+, 1/10: 4+	2+(1/20)	1/20 2+	1:40 (1+)	1:5 (2+)	1:20 +	1:40 (++)	1:20	40	2+ 1/40	1:40	20	10-40
10	1:20 3+	1/5: 4+, 1/10: 4+	2+(1/20)	1/20 2+	1:40 (1+)	1:10 (2+)	1:20 +	1:40 (++)	1:20	40	2+ 1/40	1:20	20	10-40
11	1:40 3+	1/5: 4+, 1/10: 4+	3+(1/160)	1/40 2+	1:80 (4+)	1:20 (2+)	1:80 ++	1:80 (+++)	1:160	40	4+ 1/80	1:20	80	40-160
12	1:40 3+	1/5: 4+, 1/10: 4+	3+(1/160)	1/40 2+	1:80 (3+)	1:10 (4+)	1:80 ++	1:80 (+++)	1:160	40	4+ 1/80	1:80	80	40-160
13	1:40 3+	1/5: 4+, 1/10: 4+	3+(1/160)	1/40 2+	1:80 (3+)	1:20 (2+)	1:80 ++	1:80 (+++)	1:160	80	4+ 1/80	1:40	80	40-160
14	1:10 3+	1/5: 4+, 1/10: 3+	2+(1/10)	1/10 2+	1:20 (1+)	1:5 (trace)	1:10 +	1:10 (++++)	1:10	40	2+ 1/20	1:20	10	5-20
15	1:10 3+	1/5: 4+, 1/10: 3+	2+(1/10)	1/10 2+	1:20 (1+)	1:5 (2+)	1:10 +	1:10 (++++)	1:10	20	2+ 1/20	1:80	10	5-20
16	1:20 3+	1/5: 4+, 1/10: 4+	3+(1/80)	1/20 2+	1:40 (1+)	1:10 (2+)	1:40 ++	1:40 (++++)	1:40	40	4+ 1/40	1:40	40	20-80
17	1:20 3+	1/5: 4+, 1/10: 4+	3+(1/80)	1/20 2+	1:80 (1+)	1:10 (3+)	1:40 ++	1:40 (++++)	1:40	40	4+ 1/40	-	40	20-80
18	1:10 3+	1/5: 4+, 1/10: 4+	3+(1/40)	1/10 2+	1:20 (3+)	1:5 (3+)	1:20 +	1:20 (++++)	1:20	20	3+ 1/20	1:40	20	10-40
19	1:10 3+	1/5: 4+, 1/10: 2+	3+(1/40)	1/10 2+	1:40 (1+)	1:5 (2+)	1:20 +	1:20 (++++)	1:20	20	3+ 1/20	1:40	20	10-40
20	1:10 3+	1/5: 4+, 1/10: 1+	3+(1/40)	1/10 2+	1:40 (2+)	1:5 (3+)	1:20 +	1:20 (++++)	1:20	20	4+ 1/20	1:40	20	10-40

THIS INTERLABORATORY PROFICIENCY TEST REPORT MAY ONLY BE COPIED IN THE FORM OF A COMPLETE PHOTOGRAPHIC FACSIMILE.

Table 3: Qualitative results using the IFAT

SAMPLE #	18-E	18-I	18-J	18-K	EXPECTED RESULT
1	NEGATIVE	N	POSITIVE	-ve	Negative
2	NEGATIVE	N	NEGATIVE	-ve	Negative
3	NEGATIVE	N	NEGATIVE	-ve	Negative
4	NEGATIVE	N	NEGATIVE	-ve	Negative
5	NEGATIVE	N	NEGATIVE	-ve	Negative
6	NEGATIVE	N	DOUBTFUL	-ve	Negative
7	NEGATIVE	N	NEGATIVE	-ve	Negative
8	POSITIVE	P	DOUBTFUL	+ve	Positive
9	POSITIVE	P	POSITIVE	+ve	Positive
10	POSITIVE	P	POSITIVE	+ve	Positive
11	POSITIVE	P	POSITIVE	+ve	Positive
12	POSITIVE	P	POSITIVE	+ve	Positive
13	POSITIVE	P	POSITIVE	+ve	Positive
14	POSITIVE	P	POSITIVE	+ve	Positive
15	POSITIVE	P	POSITIVE	-ve	Positive
16	POSITIVE	P	POSITIVE	+ve	Positive
17	POSITIVE	P	POSITIVE	+ve	Positive
18	POSITIVE	P	POSITIVE	NE*	Positive
19	POSITIVE	P	POSITIVE	+ve	Positive
20	POSITIVE	P	POSITIVE	+ve	Positive

Table 4: Quantitative results using the IFAT

SAMPLE #	18-E	18-I	18-J	18-K	EXPECTED TITRE	TITRE RANGE
8	1:160	P 1:80	1:40	1/160	40	20-80
9	1:80	P 1:80	1:160	1/320	20	10-40
10	1:80	P 1:80	1:160	1/160	20	10-40
11	≥1/1280	P 1:80	1:320	1/320	80	40-160
12	≥1:1280	P 1:80	1:320	1/160	80	40-160
13	≥1:1280	P 1:80	1:640	1/320	80	40-160
14	1:80	P 1:80	1:80	1/160	10	5-20
15	1:80	P 1:80	1:80	1/40	10	5-20
16	1:640	P 1:80	1:320	1/160	40	20-80
17	≥1:1280	P 1:80	1:320	1/160	40	20-80
18	1:640	P 1:80	1:160	NE*	20	10-40
19	1:640	P 1:80	1:320	1/160	20	10-40
20	1:640	P 1:80	1:160	1/160	20	10-40

* NE = Not evaluated