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Statement

To whom it may concern:

Here we would like to state that "Wondfo 2019-nCoV Antigen Test (Lateral Flow Method)" manufactured by Guangzhou Wondfo Biotech Co., Ltd. detects mainly 2019-nCoV nucleocapsid phosphoprotein.

The recent B.1.1.7 strain arose in UK has mutation on RBD region of Spike protein, which does not affect the result of our test reagents.

Sincerely yours,

Guangzhou Wondfo Biotech Co., Ltd.

24th Dec. 2020



"Validation of antigen test Covid"

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VALIDATION REPORT

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SARS-COV-2 ANTIGEN TEST

Wondfo

1. History

COVID-19 is an illness caused by a novel coronavirus now called severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2, formerly called 2019-nCoV), which was first identified in December 2019 during an outbreak of respiratory illness cases in China.

2. Introduction / Objectives

Rapid antigen tests could have a value in outbreak situations where results are urgent.

With this validation we aim to verify the analytical quality of the Wondfo Sars-CoV 2 antigen test. Since a clinical routine laboratory, always uses a transport medium to perform PCR analyses, this validation will deviate from the collection instructions or the package insert. The analyses will be done on left over clinical samples with viral transport medium (Lingen).

For each sample the Ct (cycle threshold) value is known, determined with PCR.

During this validation, routine samples with a known PCR result were used. For PCR analysis we used a Starlet (Accuramed), combined with CFX96 analyzer (BioRad), with Sars-CoV 2 reactive from Seegene (detection cut-off Ct 40).

To check the cut off value of the Wondfo antigen test, an exploratory experiment was performed, using a linearity series. The cut off value was the value where the viral load is too small to detect with the antigen test.

The reading of the antigen tests was always done by 2 independent lab technicians. Subsequently, samples with Ct values around the experimentally determined cut-off were analyzed.

Specificity was checked by using samples with non-detectable results by PCR analysis.

During a final experiment we validated the antigen tests against two existing antigen tests for Sars-CoV 2, i.e. the tests of Roche (Ref. SARS-CoV-2 Rapid Antigen Test, 9901-NCOV-01G) and Abbott (Ref. Panbio Covid-19 Ag Rapid Test Device, 41FK10).

3. Indication

Validation of Sars-CoV-2 antigen test

4. Material and Methods

Sample type: Lingen tube
Sample volume: <100 µL

5. Test Principle

Wondfo SARS-CoV-2 Antigen Test (Lateral Flow Method) is an immunochromatographic assay for rapid, qualitative detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) antigen extracted from the nasopharyngeal swab or oropharyngeal swab specimen.

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Wondfo SARS-CoV-2 Antigen Test (Lateral Flow Method) is based on the principle of Immunochromatography sandwich for determination of SARS-CoV-2 antigen extracted from the nasopharyngeal swab or oropharyngeal swab specimen. When the extracted specimen is added into the test device, the specimen is absorbed into the device by capillary action, mixes with the SARS-CoV-2 antibody-dye conjugate and flows across the pre-coated membrane.

When the SARS-CoV-2 antigen level in the specimen is at or above the target cutoff (the detection limit of the test), the antigen bound to the antibody-dye conjugate are combined by SARS-CoV-2 antibody immobilized in the Test Region (T) of the device, and this produces a colored test band that indicates a positive result. When the SARS-CoV-2 antigen level in the specimen is zero or below the target cutoff, there is not a visible colored band in the Test Region (T) of the device. This indicates a negative result. To serve as a procedure control, a colored line will appear at the Control Region (C), if the test has been performed properly.

6. Analytical Performance: Results

6.1. Compatibility viral transport environment with antigen test

Since no data are available on the use of the antigen test in combination with a transport medium, we first performed an exploratory experiment to determine the matrix effect on the antigen test method, based on the result of the internal test control.

At a dilution of 1/2, the control line was not visible. Both dilution 1/4 and 1/8 gave a control line, and strong positive samples gave a test line at both dilutions. In order to minimize the effect of the transport medium, it was decided to proceed with a 1/8 dilution.

Ngen	Ct = 16
1/8	pos
1/4	pos
1/2	no control line

6.2. Linearity strong sample

In a subsequent experiment, using a dilution of a strong clinical sample (Ct = 10.52), the cut off value of the antigen test was estimated. This was Ct = +/- 23. The Ct values of the last 3 positive tests were confirmed with a new PCR on the Ngen.

All control lines were positive

Dilution	Result	Estimated Ct Ngen	Ct Ngen (PCR)
Undiluted	/	/	10.52
1/8	pos	15	-
1/16	pos	16	-
1/32	pos	17	-
1/64	pos	18	-
1/128	pos	19	-
1/256	pos	20	-
1/512	weak pos	21	20.72
1/1024	weak pos	22	21.77
1/2048	Weak pos	23	22.76
1/4096	neg	24	-
1/8192	neg	25	-

6.3. Results samples with Ct values around cut off

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Several samples with Ct values around 23 were selected to confirm the linearity experiment. Taking into account a starting dilution of 1/8 (= +/- 3 Ct loss of sensitivity), we can state that the theoretical cut-off (=100% sensitivity) of the rapid test is around a cut-off of 23.

All control lines were positive.

*Estimated Ct: Real Ct PCR + 3 Ct

<i>Ngen – PCR*</i>	ANTIGEN	
13.03	pos	
13.87	pos	
15.55	weak pos	
16.41	pos	
17.83	pos	
18.61	weak pos	
18.64	weak pos	
19.14	pos	
19.58	weak pos	
20.23	weak pos	
21.51	neg	
22.4	neg	
23.61	neg	
23.86	neg	
24.34	neg	
Estimated Ct	POS	NEG
<23	10	0
>23	0	5

6.4. Comparison of different antigen tests

The following antigen tests were compared: **Wondfo, Roche and Abbott**.

Only Roche provides a method for antigen testing from the transport medium. When following this method (dilution ~1/2), no control line was detected. Therefore, it was decided to continue with dilution 1/8 (Ct Ngen +3 Ct versus PCR) for both Roche and Abbott.

Wondfo antigen test scores clearly better than Roche and Abbott. For the latter, only samples with very strong positive samples are detected with the antigen test. The sensitivity cut-off of Wondfo is also around Ct 23 in this experiment (Table 1).

This is possibly due to the use of the Lingen viral culture medium, which tests inhibitory activity on the antigens.

Therefore, an experiment was performed in which the viral medium of positive PCR samples were diluted 1/8 in amies buffer. Afterwards, we worked on a 350 µL diluted sample in amies buffer + 300 µL detection buffer for Roche (cfr. package insert), and 1/2 dilution (300 µL diluted sample + 300 µL detection buffer) for Abbott and Wondfo. This dilution gave a control line for all antigen tests. The results again show that Wondfo had better results compared to Roche and Abbott (Table 2).

Ct Ngen – PCR*	28	18,55	24,7	23,1	19	24,4
Abbott	neg	neg	neg	neg	neg	neg
Roche	neg	neg	neg	neg	neg	neg
Wondfo	neg	weak pos	neg	neg	pos	neg

Table 1 (all control lines were positive)

*Estimated Ct: Real Ct PCR + 3 Ct

Estimated Ct Ngen	16	19,72	29,22	24,53	26,75	23,47	21,05	23,25
Abbott	pos	weak pos	neg	neg	neg	neg	neg	neg
Roche	pos	neg	neg	neg	neg	neg	neg	neg
Wondfo	pos	pos	neg	neg	neg	weak pos	pos	weak pos

Table 2 (all control lines were positive)

6.5. **Specificity**

Specificity was verified by using 20 negative PCR samples. All negative samples were negative with the antigen test. Specificity is 100% in this experiment.

7. Conclusion

In this validation study we used left over material of routine clinical samples on which PCR for Sars-CoV-2 was performed. This way of working implies that we do not follow the manufacturer's sampling instructions (cfr. leaflet) but use viral transport medium.

With our test conditions (cfr.supra), the Wondfo Sars-CoV-2 antigen test has a sensitivity of 100% on samples of which Ct value <23. The specificity, determined on negative PCR samples, is 100%.

There is an influence of the viral transport environment on the test. At a 1/2 dilution, there is no control line present. At a dilution of 1/8 it is present. When we dilute the viral transport environment in amies buffer, it is possible to work with a 1/2 dilution. For both viral transport medium, and dilution in amies, we see that Wondfo shows a better sensitivity compared to Roche and Abbott.

For our setting, we can conclude that, as PCR performs better than antigen tests, we prefer continuing with PCR testing. These antigen detection tests can be considered when the turn around time for PCR is too high (>48h).

We presume that following of the manufacturer's sampling instructions will increase sensitivity of the test. In our ambulatory setting, we are not able to test this way of sampling.

Wondfo SARS-CoV-2 Antigen Test (Lateral Flow Method)

Guangzhou Wondfo Biotech Co., Ltd.

Clinical Evaluation Report

Date of Issue: Oct. 20, 2020

Sponsor: Guangzhou Wondfo Biotech Co., Ltd

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1. Introduction and description of the assay

Introduction

Wondfo SARS-CoV-2 Antigen Test (Lateral Flow Method) is an immunochromatographic assay for rapid, qualitative detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) antigen extracted from the nasopharyngeal swab or oropharyngeal swab specimen.

Description of the assay (principle):

Wondfo SARS-CoV-2 Antigen Test (Lateral Flow Method) is based on the principle of Immuno chromatography sandwich for determination of SARS-CoV-2 antigen extracted from the nasopharyngeal swab or oropharyngeal swab specimen. When the extracted specimen is added into the test device, the specimen is absorbed into the device by capillary action, mixes with the SARS-CoV-2 antibody-dye conjugate and flows across the pre-coated membrane.

When the SARS-CoV-2 antigen level in the specimen is at or above the target cutoff (the detection limit of the test), the antigen bound to the antibody-dye conjugate are combined by SARS-CoV-2 antibody immobilized in the Test Region (T) of the device, and this produces a colored test band that indicates a positive result. When the SARS-CoV-2 antigen level in the specimen is zero or below the target cutoff, there is not a visible colored band in the Test Region (T) of the device. This indicates a negative result. To serve as a procedure control, a colored line will appear at the Control Region (C), if the test has been performed properly.

2. Evaluation method

In this trial, based on the comparison of PCR diagnosis results of the patients, clinical application study of Wondfo SARS-CoV-2 Antigen Test (Lateral Flow Method) was conducted and thus verified the safety and effectiveness of such reagents manufactured by Guangzhou Wondfo Biotech Co., Ltd.

3. Clinical samples

A total of 859 clinical oropharyngeal swab samples were included in this trial.

4. Clinical trial period

October 12 to October 20, 2020

5. Results and Analysis

5.1 Test procedure

Throughout the evaluation, all samples should be tested with the Wondfo SARS-CoV-2 Antigen Test (Lateral Flow Method) according to the 'Test procedure' described in the Instruction for Use supplied with the reagent.

5.2 Comparative Analysis of Trial Results

Trial Completion

A total of 497 PCR positive cases and 362 PCR negative cases were included in this trial of 2 clinical sites.

Major Effectiveness Statistical Methods

Compared with PCR results, calculate the sensitivity, specificity, overall consistency and the 95% confidence interval (CI) of test reagents. Sensitivity, specificity, overall consistency: range from 0%~100%, the closer the value is to 100%, the higher the degree of compliance with clinical diagnosis.

5.3 Result Analysis

Test results are shown as Table 1, and clinical trial results are detailed in Annex I Clinical verification data list.

Table 1: 2 × 2 Contingency Table Analysis of PCR Results and Evaluation Reagent Test

Evaluation Reagents	Results		
	PCR Positive	PCR Negative	Total
SARS-CoV-2 Antigen positive	478	1	479
SARS-CoV-2 Antigen Negative	19	361	380

Total	497	362	859
Sensitivity	96.18%	95%CI:	96.43%~98.49%
Specificity	99.72%	95%CI:	98.45%~99.95%
Total conformity rate	97.67%	95%CI:	94.11%~97.54%

There were 478 positive samples and 361 negative samples whose SARS-CoV-2 antigen detection results were consistent with PCR results. 19 cases were confirmed PCR positive and meanwhile tested negative by Wondfo SARS-CoV-2 Antigen Test (Lateral flow method) and 1 case was confirmed PCR negative and meanwhile tested positive by Wondfo SARS-CoV-2 Antigen Test (Lateral flow method).

6. Conclusion

From the results of 859 clinical samples, it is conducted that Wondfo SARS-CoV-2 Antigen Test (Lateral flow method) developed by Guangzhou Wondfo Biotech Co., Ltd. can meet the requirement of clinical intended use.

Annex I Clinical Verification Data List

Results of negative samples:

Sample	Clinical site	Date of testing	Wondfo result	PCR result	Coincidence
1	Site 1	12-Oct-20	N	N	Yes
2	Site 1	12-Oct-20	N	N	Yes
3	Site 1	12-Oct-20	N	N	Yes
4	Site 1	12-Oct-20	N	N	Yes
5	Site 1	12-Oct-20	N	N	Yes
6	Site 1	12-Oct-20	N	N	Yes
7	Site 1	12-Oct-20	N	N	Yes
8	Site 1	12-Oct-20	N	N	Yes
9	Site 1	12-Oct-20	N	N	Yes
10	Site 1	12-Oct-20	N	N	Yes
11	Site 1	12-Oct-20	N	N	Yes
12	Site 1	12-Oct-20	N	N	Yes
13	Site 1	12-Oct-20	N	N	Yes
14	Site 1	12-Oct-20	N	N	Yes
15	Site 1	12-Oct-20	N	N	Yes
16	Site 1	12-Oct-20	N	N	Yes
17	Site 1	12-Oct-20	N	N	Yes
18	Site 1	12-Oct-20	N	N	Yes
19	Site 1	12-Oct-20	N	N	Yes
20	Site 1	12-Oct-20	N	N	Yes
21	Site 1	12-Oct-20	N	N	Yes
22	Site 1	12-Oct-20	N	N	Yes
23	Site 1	13-Oct-20	N	N	Yes
24	Site 1	13-Oct-20	N	N	Yes
25	Site 1	13-Oct-20	N	N	Yes
26	Site 1	13-Oct-20	N	N	Yes
27	Site 1	13-Oct-20	N	N	Yes
28	Site 1	13-Oct-20	N	N	Yes
29	Site 1	13-Oct-20	N	N	Yes
30	Site 1	13-Oct-20	N	N	Yes
31	Site 1	13-Oct-20	N	N	Yes
32	Site 1	13-Oct-20	N	N	Yes
33	Site 1	13-Oct-20	N	N	Yes
34	Site 1	13-Oct-20	N	N	Yes
35	Site 1	13-Oct-20	N	N	Yes
36	Site 1	13-Oct-20	N	N	Yes
37	Site 1	13-Oct-20	N	N	Yes
38	Site 1	13-Oct-20	N	N	Yes
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43	Site 1	13-Oct-20	N	N	Yes
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53	Site 1	14-Oct-20	N	N	Yes
54	Site 1	14-Oct-20	N	N	Yes
55	Site 1	14-Oct-20	P	N	No
56	Site 1	14-Oct-20	N	N	Yes
57	Site 1	14-Oct-20	N	N	Yes
58	Site 1	14-Oct-20	N	N	Yes
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61	Site 1	14-Oct-20	N	N	Yes
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234	Site 1	20-Oct-20	N	N	Yes
235	Site 1	20-Oct-20	N	N	Yes
236	Site 1	20-Oct-20	N	N	Yes
237	Site 1	20-Oct-20	N	N	Yes
238	Site 1	20-Oct-20	N	N	Yes
239	Site 1	20-Oct-20	N	N	Yes
240	Site 1	20-Oct-20	N	N	Yes
241	Site 1	20-Oct-20	N	N	Yes
242	Site 1	20-Oct-20	N	N	Yes
243	Site 1	20-Oct-20	N	N	Yes
244	Site 1	20-Oct-20	N	N	Yes
245	Site 1	20-Oct-20	N	N	Yes
246	Site 1	20-Oct-20	N	N	Yes
247	Site 1	20-Oct-20	N	N	Yes
248	Site 1	20-Oct-20	N	N	Yes
249	Site 2	12-Oct-20	N	N	Yes
250	Site 2	12-Oct-20	N	N	Yes
251	Site 2	12-Oct-20	N	N	Yes
252	Site 2	12-Oct-20	N	N	Yes
253	Site 2	12-Oct-20	N	N	Yes
254	Site 2	12-Oct-20	N	N	Yes

255	Site 2	12-Oct-20	N	N	Yes
256	Site 2	12-Oct-20	N	N	Yes
257	Site 2	12-Oct-20	N	N	Yes
258	Site 2	12-Oct-20	N	N	Yes
259	Site 2	12-Oct-20	N	N	Yes
260	Site 2	12-Oct-20	N	N	Yes
261	Site 2	12-Oct-20	N	N	Yes
262	Site 2	12-Oct-20	N	N	Yes
263	Site 2	12-Oct-20	N	N	Yes
264	Site 2	12-Oct-20	N	N	Yes
265	Site 2	12-Oct-20	N	N	Yes
266	Site 2	12-Oct-20	N	N	Yes
267	Site 2	13-Oct-20	N	N	Yes
268	Site 2	13-Oct-20	N	N	Yes
269	Site 2	13-Oct-20	N	N	Yes
270	Site 2	13-Oct-20	N	N	Yes
271	Site 2	13-Oct-20	N	N	Yes
272	Site 2	13-Oct-20	N	N	Yes
273	Site 2	13-Oct-20	N	N	Yes
274	Site 2	13-Oct-20	N	N	Yes
275	Site 2	13-Oct-20	N	N	Yes
276	Site 2	13-Oct-20	N	N	Yes
277	Site 2	13-Oct-20	N	N	Yes
278	Site 2	13-Oct-20	N	N	Yes
279	Site 2	13-Oct-20	N	N	Yes
280	Site 2	14-Oct-20	N	N	Yes
281	Site 2	14-Oct-20	N	N	Yes
282	Site 2	14-Oct-20	N	N	Yes
283	Site 2	14-Oct-20	N	N	Yes
284	Site 2	14-Oct-20	N	N	Yes
285	Site 2	14-Oct-20	N	N	Yes
286	Site 2	14-Oct-20	N	N	Yes
287	Site 2	14-Oct-20	N	N	Yes
288	Site 2	14-Oct-20	N	N	Yes
289	Site 2	14-Oct-20	N	N	Yes
290	Site 2	14-Oct-20	N	N	Yes
291	Site 2	14-Oct-20	N	N	Yes
292	Site 2	14-Oct-20	N	N	Yes
293	Site 2	14-Oct-20	N	N	Yes
294	Site 2	14-Oct-20	N	N	Yes
295	Site 2	14-Oct-20	N	N	Yes
296	Site 2	14-Oct-20	N	N	Yes
297	Site 2	15-Oct-20	N	N	Yes

298	Site 2	15-Oct-20	N	N	Yes
299	Site 2	15-Oct-20	N	N	Yes
300	Site 2	15-Oct-20	N	N	Yes
301	Site 2	15-Oct-20	N	N	Yes
302	Site 2	15-Oct-20	N	N	Yes
303	Site 2	15-Oct-20	N	N	Yes
304	Site 2	15-Oct-20	N	N	Yes
305	Site 2	15-Oct-20	N	N	Yes
306	Site 2	15-Oct-20	N	N	Yes
307	Site 2	15-Oct-20	N	N	Yes
308	Site 2	15-Oct-20	N	N	Yes
309	Site 2	15-Oct-20	N	N	Yes
310	Site 2	16-Oct-20	N	N	Yes
311	Site 2	16-Oct-20	N	N	Yes
312	Site 2	16-Oct-20	N	N	Yes
313	Site 2	16-Oct-20	N	N	Yes
314	Site 2	16-Oct-20	N	N	Yes
315	Site 2	16-Oct-20	N	N	Yes
316	Site 2	16-Oct-20	N	N	Yes
317	Site 2	16-Oct-20	N	N	Yes
318	Site 2	16-Oct-20	N	N	Yes
319	Site 2	16-Oct-20	N	N	Yes
320	Site 2	16-Oct-20	N	N	Yes
321	Site 2	16-Oct-20	N	N	Yes
322	Site 2	19-Oct-20	N	N	Yes
323	Site 2	19-Oct-20	N	N	Yes
324	Site 2	19-Oct-20	N	N	Yes
325	Site 2	19-Oct-20	N	N	Yes
326	Site 2	19-Oct-20	N	N	Yes
327	Site 2	19-Oct-20	N	N	Yes
328	Site 2	19-Oct-20	N	N	Yes
329	Site 2	19-Oct-20	N	N	Yes
330	Site 2	19-Oct-20	N	N	Yes
331	Site 2	19-Oct-20	N	N	Yes
332	Site 2	19-Oct-20	N	N	Yes
333	Site 2	19-Oct-20	N	N	Yes
334	Site 2	19-Oct-20	N	N	Yes
335	Site 2	19-Oct-20	N	N	Yes
336	Site 2	19-Oct-20	N	N	Yes
337	Site 2	19-Oct-20	N	N	Yes
338	Site 2	19-Oct-20	N	N	Yes
339	Site 2	19-Oct-20	N	N	Yes
340	Site 2	19-Oct-20	N	N	Yes

341	Site 2	19-Oct-20	N	N	Yes
342	Site 2	19-Oct-20	N	N	Yes
343	Site 2	20-Oct-20	N	N	Yes
344	Site 2	20-Oct-20	N	N	Yes
345	Site 2	20-Oct-20	N	N	Yes
346	Site 2	20-Oct-20	N	N	Yes
347	Site 2	20-Oct-20	N	N	Yes
348	Site 2	20-Oct-20	N	N	Yes
349	Site 2	20-Oct-20	N	N	Yes
350	Site 2	20-Oct-20	N	N	Yes
351	Site 2	20-Oct-20	N	N	Yes
352	Site 2	20-Oct-20	N	N	Yes
353	Site 2	20-Oct-20	N	N	Yes
354	Site 2	20-Oct-20	N	N	Yes
355	Site 2	20-Oct-20	N	N	Yes
356	Site 2	20-Oct-20	N	N	Yes
357	Site 2	20-Oct-20	N	N	Yes
358	Site 2	20-Oct-20	N	N	Yes
359	Site 2	20-Oct-20	N	N	Yes
360	Site 2	20-Oct-20	N	N	Yes
361	Site 2	20-Oct-20	N	N	Yes
362	Site 2	20-Oct-20	N	N	Yes

Note: N=Negative, P=Positive

Results of positive samples:

Sample	Clinical site	Date of testing	Wondfo result	PCR result	Coincidence
1	Site 1	12-Oct-20	P	P	Yes
2	Site 1	12-Oct-20	P	P	Yes
3	Site 1	12-Oct-20	P	P	Yes
4	Site 1	12-Oct-20	P	P	Yes
5	Site 1	12-Oct-20	P	P	Yes
6	Site 1	12-Oct-20	P	P	Yes
7	Site 1	12-Oct-20	P	P	Yes
8	Site 1	12-Oct-20	P	P	Yes
9	Site 1	12-Oct-20	N	P	No
10	Site 1	12-Oct-20	P	P	Yes
11	Site 1	12-Oct-20	P	P	Yes
12	Site 1	12-Oct-20	P	P	Yes
13	Site 1	12-Oct-20	P	P	Yes
14	Site 1	12-Oct-20	P	P	Yes
15	Site 1	12-Oct-20	P	P	Yes
16	Site 1	12-Oct-20	P	P	Yes
17	Site 1	12-Oct-20	P	P	Yes

18	Site 1	12-Oct-20	P	P	Yes
19	Site 1	12-Oct-20	P	P	Yes
20	Site 1	12-Oct-20	P	P	Yes
21	Site 1	12-Oct-20	P	P	Yes
22	Site 1	12-Oct-20	P	P	Yes
23	Site 1	12-Oct-20	P	P	Yes
24	Site 1	12-Oct-20	P	P	Yes
25	Site 1	12-Oct-20	P	P	Yes
26	Site 1	12-Oct-20	N	P	No
27	Site 1	12-Oct-20	P	P	Yes
28	Site 1	12-Oct-20	P	P	Yes
29	Site 1	12-Oct-20	P	P	Yes
30	Site 1	12-Oct-20	P	P	Yes
31	Site 1	12-Oct-20	P	P	Yes
32	Site 1	12-Oct-20	P	P	Yes
33	Site 1	12-Oct-20	P	P	Yes
34	Site 1	12-Oct-20	P	P	Yes
35	Site 1	12-Oct-20	N	P	No
36	Site 1	12-Oct-20	P	P	Yes
37	Site 1	12-Oct-20	P	P	Yes
38	Site 1	12-Oct-20	P	P	Yes
39	Site 1	13-Oct-20	N	P	No
40	Site 1	13-Oct-20	P	P	Yes
41	Site 1	13-Oct-20	P	P	Yes
42	Site 1	13-Oct-20	P	P	Yes
43	Site 1	13-Oct-20	P	P	Yes
44	Site 1	13-Oct-20	P	P	Yes
45	Site 1	13-Oct-20	P	P	Yes
46	Site 1	13-Oct-20	P	P	Yes
47	Site 1	13-Oct-20	P	P	Yes
48	Site 1	13-Oct-20	N	P	No
49	Site 1	13-Oct-20	P	P	Yes
50	Site 1	13-Oct-20	P	P	Yes
51	Site 1	13-Oct-20	N	P	No
52	Site 1	13-Oct-20	P	P	Yes
53	Site 1	13-Oct-20	P	P	Yes
54	Site 1	13-Oct-20	P	P	Yes
55	Site 1	13-Oct-20	P	P	Yes
56	Site 1	13-Oct-20	P	P	Yes
57	Site 1	13-Oct-20	P	P	Yes
58	Site 1	13-Oct-20	P	P	Yes
59	Site 1	13-Oct-20	P	P	Yes
60	Site 1	13-Oct-20	P	P	Yes

61	Site 1	13-Oct-20	N	P	No
62	Site 1	13-Oct-20	P	P	Yes
63	Site 1	13-Oct-20	N	P	No
64	Site 1	13-Oct-20	P	P	Yes
65	Site 1	13-Oct-20	P	P	Yes
66	Site 1	13-Oct-20	P	P	Yes
67	Site 1	13-Oct-20	P	P	Yes
68	Site 1	13-Oct-20	P	P	Yes
69	Site 1	13-Oct-20	P	P	Yes
70	Site 1	13-Oct-20	P	P	Yes
71	Site 1	13-Oct-20	P	P	Yes
72	Site 1	14-Oct-20	P	P	Yes
73	Site 1	14-Oct-20	P	P	Yes
74	Site 1	14-Oct-20	P	P	Yes
75	Site 1	14-Oct-20	P	P	Yes
76	Site 1	14-Oct-20	P	P	Yes
77	Site 1	14-Oct-20	P	P	Yes
78	Site 1	14-Oct-20	P	P	Yes
79	Site 1	14-Oct-20	P	P	Yes
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81	Site 1	14-Oct-20	P	P	Yes
82	Site 1	14-Oct-20	P	P	Yes
83	Site 1	14-Oct-20	P	P	Yes
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86	Site 1	14-Oct-20	P	P	Yes
87	Site 1	14-Oct-20	P	P	Yes
88	Site 1	14-Oct-20	P	P	Yes
89	Site 1	15-Oct-20	P	P	Yes
90	Site 1	15-Oct-20	P	P	Yes
91	Site 1	15-Oct-20	P	P	Yes
92	Site 1	15-Oct-20	P	P	Yes
93	Site 1	15-Oct-20	P	P	Yes
94	Site 1	15-Oct-20	P	P	Yes
95	Site 1	15-Oct-20	P	P	Yes
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105	Site 1	15-Oct-20	P	P	Yes
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107	Site 1	15-Oct-20	P	P	Yes
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110	Site 1	15-Oct-20	P	P	Yes
111	Site 1	15-Oct-20	P	P	Yes
112	Site 1	15-Oct-20	P	P	Yes
113	Site 1	16-Oct-20	P	P	Yes
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115	Site 1	16-Oct-20	P	P	Yes
116	Site 1	16-Oct-20	P	P	Yes
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130	Site 1	16-Oct-20	N	P	No
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134	Site 1	16-Oct-20	P	P	Yes
135	Site 1	16-Oct-20	P	P	Yes
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148	Site 1	16-Oct-20	P	P	Yes
149	Site 1	16-Oct-20	P	P	Yes
150	Site 1	16-Oct-20	P	P	Yes
151	Site 1	16-Oct-20	P	P	Yes
152	Site 1	16-Oct-20	P	P	Yes
153	Site 1	16-Oct-20	P	P	Yes
154	Site 1	19-Oct-20	P	P	Yes
155	Site 1	19-Oct-20	P	P	Yes
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245	Site 1	19-Oct-20	P	P	Yes
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252	Site 1	19-Oct-20	P	P	Yes
253	Site 1	19-Oct-20	P	P	Yes
254	Site 1	19-Oct-20	P	P	Yes
255	Site 1	19-Oct-20	P	P	Yes
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263	Site 1	19-Oct-20	P	P	Yes
264	Site 1	19-Oct-20	P	P	Yes
265	Site 1	19-Oct-20	P	P	Yes
266	Site 1	19-Oct-20	P	P	Yes
267	Site 1	19-Oct-20	P	P	Yes
268	Site 1	19-Oct-20	P	P	Yes
269	Site 1	19-Oct-20	P	P	Yes
270	Site 1	19-Oct-20	P	P	Yes
271	Site 1	19-Oct-20	P	P	Yes
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273	Site 1	19-Oct-20	P	P	Yes
274	Site 1	19-Oct-20	P	P	Yes
275	Site 1	19-Oct-20	P	P	Yes

276	Site 1	19-Oct-20	P	P	Yes
277	Site 1	20-Oct-20	P	P	Yes
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279	Site 1	20-Oct-20	P	P	Yes
280	Site 1	20-Oct-20	P	P	Yes
281	Site 1	20-Oct-20	P	P	Yes
282	Site 1	20-Oct-20	P	P	Yes
283	Site 1	20-Oct-20	P	P	Yes
284	Site 1	20-Oct-20	P	P	Yes
285	Site 1	20-Oct-20	P	P	Yes
286	Site 1	20-Oct-20	P	P	Yes
287	Site 1	20-Oct-20	P	P	Yes
288	Site 1	20-Oct-20	P	P	Yes
289	Site 1	20-Oct-20	P	P	Yes
290	Site 1	20-Oct-20	P	P	Yes
291	Site 1	20-Oct-20	P	P	Yes
292	Site 1	20-Oct-20	P	P	Yes
293	Site 1	20-Oct-20	P	P	Yes
294	Site 1	20-Oct-20	P	P	Yes
295	Site 1	20-Oct-20	P	P	Yes
296	Site 1	20-Oct-20	P	P	Yes
297	Site 1	20-Oct-20	P	P	Yes
298	Site 1	20-Oct-20	P	P	Yes
299	Site 1	20-Oct-20	P	P	Yes
300	Site 1	20-Oct-20	P	P	Yes
301	Site 1	20-Oct-20	P	P	Yes
302	Site 1	20-Oct-20	P	P	Yes
303	Site 1	20-Oct-20	P	P	Yes
304	Site 1	20-Oct-20	P	P	Yes
305	Site 1	20-Oct-20	P	P	Yes
306	Site 2	12-Oct-20	P	P	Yes
307	Site 2	12-Oct-20	P	P	Yes
308	Site 2	12-Oct-20	P	P	Yes
309	Site 2	12-Oct-20	P	P	Yes
310	Site 2	12-Oct-20	P	P	Yes
311	Site 2	12-Oct-20	P	P	Yes
312	Site 2	12-Oct-20	P	P	Yes
313	Site 2	12-Oct-20	P	P	Yes
314	Site 2	12-Oct-20	P	P	Yes
315	Site 2	12-Oct-20	P	P	Yes
316	Site 2	12-Oct-20	P	P	Yes
317	Site 2	12-Oct-20	P	P	Yes
318	Site 2	12-Oct-20	P	P	Yes

319	Site 2	12-Oct-20	P	P	Yes
320	Site 2	12-Oct-20	P	P	Yes
321	Site 2	12-Oct-20	P	P	Yes
322	Site 2	12-Oct-20	P	P	Yes
323	Site 2	12-Oct-20	P	P	Yes
324	Site 2	12-Oct-20	P	P	Yes
325	Site 2	12-Oct-20	P	P	Yes
326	Site 2	12-Oct-20	P	P	Yes
327	Site 2	12-Oct-20	P	P	Yes
328	Site 2	12-Oct-20	P	P	Yes
329	Site 2	12-Oct-20	P	P	Yes
330	Site 2	12-Oct-20	P	P	Yes
331	Site 2	12-Oct-20	P	P	Yes
332	Site 2	13-Oct-20	P	P	Yes
333	Site 2	13-Oct-20	P	P	Yes
334	Site 2	13-Oct-20	P	P	Yes
335	Site 2	13-Oct-20	N	P	No
336	Site 2	13-Oct-20	P	P	Yes
337	Site 2	13-Oct-20	P	P	Yes
338	Site 2	13-Oct-20	P	P	Yes
339	Site 2	13-Oct-20	P	P	Yes
340	Site 2	13-Oct-20	P	P	Yes
341	Site 2	13-Oct-20	P	P	Yes
342	Site 2	13-Oct-20	P	P	Yes
343	Site 2	13-Oct-20	P	P	Yes
344	Site 2	13-Oct-20	P	P	Yes
345	Site 2	13-Oct-20	P	P	Yes
346	Site 2	13-Oct-20	P	P	Yes
347	Site 2	13-Oct-20	N	P	No
348	Site 2	13-Oct-20	P	P	Yes
349	Site 2	13-Oct-20	P	P	Yes
350	Site 2	13-Oct-20	P	P	Yes
351	Site 2	13-Oct-20	P	P	Yes
352	Site 2	14-Oct-20	P	P	Yes
353	Site 2	14-Oct-20	P	P	Yes
354	Site 2	14-Oct-20	P	P	Yes
355	Site 2	14-Oct-20	P	P	Yes
356	Site 2	14-Oct-20	P	P	Yes
357	Site 2	14-Oct-20	P	P	Yes
358	Site 2	14-Oct-20	P	P	Yes
359	Site 2	14-Oct-20	P	P	Yes
360	Site 2	14-Oct-20	P	P	Yes
361	Site 2	14-Oct-20	P	P	Yes

362	Site 2	14-Oct-20	P	P	Yes
363	Site 2	14-Oct-20	P	P	Yes
364	Site 2	14-Oct-20	P	P	Yes
365	Site 2	14-Oct-20	P	P	Yes
366	Site 2	14-Oct-20	P	P	Yes
367	Site 2	15-Oct-20	P	P	Yes
368	Site 2	15-Oct-20	P	P	Yes
369	Site 2	15-Oct-20	P	P	Yes
370	Site 2	15-Oct-20	P	P	Yes
371	Site 2	15-Oct-20	P	P	Yes
372	Site 2	15-Oct-20	P	P	Yes
373	Site 2	15-Oct-20	P	P	Yes
374	Site 2	15-Oct-20	P	P	Yes
375	Site 2	15-Oct-20	P	P	Yes
376	Site 2	15-Oct-20	P	P	Yes
377	Site 2	15-Oct-20	P	P	Yes
378	Site 2	15-Oct-20	P	P	Yes
379	Site 2	15-Oct-20	P	P	Yes
380	Site 2	15-Oct-20	P	P	Yes
381	Site 2	15-Oct-20	P	P	Yes
382	Site 2	15-Oct-20	N	P	No
383	Site 2	15-Oct-20	P	P	Yes
384	Site 2	15-Oct-20	P	P	Yes
385	Site 2	15-Oct-20	P	P	Yes
386	Site 2	15-Oct-20	P	P	Yes
387	Site 2	15-Oct-20	P	P	Yes
388	Site 2	15-Oct-20	P	P	Yes
389	Site 2	15-Oct-20	P	P	Yes
390	Site 2	15-Oct-20	P	P	Yes
391	Site 2	16-Oct-20	P	P	Yes
392	Site 2	16-Oct-20	P	P	Yes
393	Site 2	16-Oct-20	P	P	Yes
394	Site 2	16-Oct-20	P	P	Yes
395	Site 2	16-Oct-20	P	P	Yes
396	Site 2	16-Oct-20	P	P	Yes
397	Site 2	16-Oct-20	P	P	Yes
398	Site 2	16-Oct-20	P	P	Yes
399	Site 2	16-Oct-20	P	P	Yes
400	Site 2	16-Oct-20	P	P	Yes
401	Site 2	16-Oct-20	P	P	Yes
402	Site 2	16-Oct-20	P	P	Yes
403	Site 2	16-Oct-20	P	P	Yes
404	Site 2	16-Oct-20	P	P	Yes

405	Site 2	16-Oct-20	P	P	Yes
406	Site 2	16-Oct-20	P	P	Yes
407	Site 2	16-Oct-20	P	P	Yes
408	Site 2	16-Oct-20	P	P	Yes
409	Site 2	16-Oct-20	P	P	Yes
410	Site 2	16-Oct-20	P	P	Yes
411	Site 2	16-Oct-20	P	P	Yes
412	Site 2	16-Oct-20	P	P	Yes
413	Site 2	16-Oct-20	P	P	Yes
414	Site 2	16-Oct-20	P	P	Yes
415	Site 2	16-Oct-20	P	P	Yes
416	Site 2	16-Oct-20	P	P	Yes
417	Site 2	16-Oct-20	P	P	Yes
418	Site 2	16-Oct-20	P	P	Yes
419	Site 2	16-Oct-20	P	P	Yes
420	Site 2	16-Oct-20	P	P	Yes
421	Site 2	16-Oct-20	P	P	Yes
422	Site 2	16-Oct-20	P	P	Yes
423	Site 2	16-Oct-20	N	P	No
424	Site 2	16-Oct-20	P	P	Yes
425	Site 2	16-Oct-20	P	P	Yes
426	Site 2	16-Oct-20	N	P	No
427	Site 2	16-Oct-20	P	P	Yes
428	Site 2	16-Oct-20	P	P	Yes
429	Site 2	16-Oct-20	P	P	Yes
430	Site 2	16-Oct-20	P	P	Yes
431	Site 2	16-Oct-20	P	P	Yes
432	Site 2	16-Oct-20	P	P	Yes
433	Site 2	16-Oct-20	P	P	Yes
434	Site 2	16-Oct-20	P	P	Yes
435	Site 2	16-Oct-20	P	P	Yes
436	Site 2	16-Oct-20	P	P	Yes
437	Site 2	16-Oct-20	P	P	Yes
438	Site 2	16-Oct-20	P	P	Yes
439	Site 2	16-Oct-20	P	P	Yes
440	Site 2	16-Oct-20	P	P	Yes
441	Site 2	16-Oct-20	P	P	Yes
442	Site 2	16-Oct-20	P	P	Yes
443	Site 2	16-Oct-20	P	P	Yes
444	Site 2	16-Oct-20	P	P	Yes
445	Site 2	16-Oct-20	P	P	Yes
446	Site 2	16-Oct-20	P	P	Yes
447	Site 2	19-Oct-20	P	P	Yes

448	Site 2	19-Oct-20	P	P	Yes
449	Site 2	19-Oct-20	P	P	Yes
450	Site 2	19-Oct-20	P	P	Yes
451	Site 2	19-Oct-20	P	P	Yes
452	Site 2	19-Oct-20	P	P	Yes
453	Site 2	19-Oct-20	P	P	Yes
454	Site 2	19-Oct-20	P	P	Yes
455	Site 2	19-Oct-20	P	P	Yes
456	Site 2	19-Oct-20	P	P	Yes
457	Site 2	19-Oct-20	P	P	Yes
458	Site 2	19-Oct-20	P	P	Yes
459	Site 2	19-Oct-20	P	P	Yes
460	Site 2	19-Oct-20	P	P	Yes
461	Site 2	19-Oct-20	N	P	No
462	Site 2	19-Oct-20	P	P	Yes
463	Site 2	19-Oct-20	P	P	Yes
464	Site 2	19-Oct-20	P	P	Yes
465	Site 2	19-Oct-20	P	P	Yes
466	Site 2	20-Oct-20	P	P	Yes
467	Site 2	20-Oct-20	P	P	Yes
468	Site 2	20-Oct-20	P	P	Yes
469	Site 2	20-Oct-20	P	P	Yes
470	Site 2	20-Oct-20	P	P	Yes
471	Site 2	20-Oct-20	P	P	Yes
472	Site 2	20-Oct-20	P	P	Yes
473	Site 2	20-Oct-20	P	P	Yes
474	Site 2	20-Oct-20	P	P	Yes
475	Site 2	20-Oct-20	P	P	Yes
476	Site 2	20-Oct-20	P	P	Yes
477	Site 2	20-Oct-20	P	P	Yes
478	Site 2	20-Oct-20	P	P	Yes
479	Site 2	20-Oct-20	P	P	Yes
480	Site 2	20-Oct-20	P	P	Yes
481	Site 2	20-Oct-20	P	P	Yes
482	Site 2	20-Oct-20	P	P	Yes
483	Site 2	20-Oct-20	P	P	Yes
484	Site 2	20-Oct-20	P	P	Yes
485	Site 2	20-Oct-20	P	P	Yes
486	Site 2	20-Oct-20	P	P	Yes
487	Site 2	20-Oct-20	P	P	Yes
488	Site 2	20-Oct-20	P	P	Yes
489	Site 2	20-Oct-20	P	P	Yes
490	Site 2	20-Oct-20	P	P	Yes

491	Site 2	20-Oct-20	P	P	Yes
492	Site 2	20-Oct-20	N	P	No
493	Site 2	20-Oct-20	P	P	Yes
494	Site 2	20-Oct-20	P	P	Yes
495	Site 2	20-Oct-20	P	P	Yes
496	Site 2	20-Oct-20	P	P	Yes
497	Site 2	20-Oct-20	P	P	Yes

Note: N=Negative, P=Positive