Substances	Concentratios	CHIL COVID-19 Antigen Rapid Test Results on Negative specimens	CHIL COVID-19 Antigen Rapid Test Results on Positive specimens
Mucin	200 mg/ml	Negative	Positive
Hemoglobin	10 mg/ml	Negative	Positive
Histamine Hydrochloride	4.0mg/L	Negative	Positive
Human albumin	60 mg/ml	Negative	Positive
α- interferon	2 ng/ml	Negative	Positive
Lopinavir	2 µg/ml	Negative	Positive
Tobramycin	10 mg/L	Negative	Positive
Ribavirin	40 mg/L	Negative	Positive
Tramadol	12 µg/ml	Negative	Positive
Azithromycin	5 µg/ml	Negative	Positive
Meropenem	10 mg/ml	Negative	Positive
Oseltamivir	1000 ng/ml	Negative	Positive
Benzocaine	1.5 mg/ml	Negative	Positive
Peramivir	20 µg/ml	Negative	Positive

The test results show that the above mentioned common substances have no interference effect on the detection performance of the COVID-19 Antigen Rapid Test. However, high concentrations of Hemoglobin may affect the test performance. In accordance with this possibility, hemolyzed specimens should not be used for avoiding to have false test results.

2.7 Discussion and Conclusion

2.7.1 Nasopharyngeal/Oropharyngeal Swab

In this clinical trial with fresh samples, 490 samples were taken from RT-PCR positive or negative patients. Among them,390 cases of "positive group" Nasopharyngeal/Oropharyngeal samples and 100 Nasopharyngeal/Oropharyngeal samples of "negative group" were determined by nucleic acid detection (RT-PCR). Among them 390 positive Nasopharyngeal/Oropharyngeal samples and 100 negative Nasopharyngeal/Oropharyngeal samples were detected by the assessment reagent. The positive coincidencerate of the assessment reagent was 98.20 % and the negative coincidence rate was 100%.

2.7.2 Nasal Swab

In this clinical trial with fresh samples, 200 samples were taken from RT-PCR positive or negative patients. Among them,100 cases of "positive group" Nasopharyngeal/Oropharyngeal samples and 100 Nasopharyngeal/Oropharyngeal samples of "negative group" were determined by nucleic acid detection (RT-PCR). Among them 100 positive nasal samples and 100 negative nasal samples were detected by the assessment reagent. The positive coincidencerate o ssment reagent was 98 % and the negative coincidence rate was 100%.

Conclusion:

In summary, the detection results of CHIL Covid-19 Antigen Rapid Test Kit developed by CHILTıbbi Mal. San. Tic. Ltd. Sti and the nucleic acid detection (RT-PCR) results are in good agreement, and the SARS-CoV-2 antigen detection function can meet the needs of clinical application.

SIGNATURE