西德有機化學藥品(股)公司

含氟漱口水氟檢驗報告

檢體批號	規格	結果	判定
P58012	氟化鈉(FNa)規格應介於 0.2%±10% 相當氟離子(F) 904ppm ± 10%	880	符合
P58022		868	符合
P58032		861	符合
P58042		860	符合
P58052		856	符合
P58062		846	符合
P58072		876	符合
P58082		859	符合
P58092		855	符合
P58102		852	符合
P58112		850	符合
P58122		845	符合
P58132		845	符合
P58142		850	符合
P58152		846	符合
P58162		842	符合
P58172		835	符合
P58182		836	符合
P58192		826	符合
P58202		825	符合

Conclusion:

We Certify that the above analysis is true and correct and the results conformed to In-house specifications.

西德有機化學藥品股份有限公司 TEL:2981-1451 新北市三重區中正北路560巷36號

Compiled By/Date: yihui Lee / 2022.05.02 Approved By/Date: Cindy deng 2022.05.03

漱口水之氟含量檢驗程序與紀錄

1.檢測方法

含氟漱口水主要成分「氟離子濃度」係以氟電極棒 pHoenis Co.Fluoride and sodium ion selective electrodes(ISE) with EUTECH ION 2700/pH/mV/Temp meter 檢測。

2 檢測步驟

2.1 儀器電極校正

2.1.1 氟離子標準液

(1) 1000ppm 氟離子標準液(F00AS02)

(2) 100ppm 氟離子標準液取 1000 ppm 氟離子標準液(F00AS02)10ml 加水定量至 100ml。

(3) 10ppm 氟離子標準液取 100 ppm 氟離子標準液(F00AS02)10ml 加水定量至 100ml。

2.1.2 檢量線校正

(1)以 10ppm、100ppm、1000ppm 各 2.5ml 及各加 2.5ml Fluoride ISA Tisabl(F00IS01)溶液進行電極校正。

(2)再以 10ppm、100ppm、1000ppm 各 2.5ml 及各加 2.5ml Fluoride ISA Tisabl(F00IS01)溶液，分別測量 10、100、1000ppm 三點之 ppm 值。

(3)試藥資訊

試藥名稱	有效期限
1000ppm 氟離子標準液(F00AS02)	2023.09.23
Fluoride ISA Tisabl(F00IS01)	2023.11.30

(4) 氟離子標準液測量結果

10ppm	100ppm	1000ppm
10.1ppm	100.0ppm	1000ppm

漱口水之氟含量檢驗程序與紀錄

2.2 漱口水檢品檢測

每瓶送檢漱口水各取 2.5mL，加入 2.5mL Fluoride ISA Tisab1(F00IS01)，攪拌均勻並測其 ppm，結果如下表:(三重覆)

檢體批號	ppm			平均值(ppm)
P58012	883	876	880	880
P58022	869	869	866	868
P58032	862	862	859	861
P58042	866	859	855	860
P58052	862	855	852	856
P58062	849	845	845	846
P58072	876	880	873	876
P58082	862	859	855	859
P58092	859	855	852	855
P58102	855	852	849	852
P58112	855	849	845	850
P58122	849	845	842	845
P58132	849	845	842	845
P58142	855	849	845	850
P58152	849	845	845	846
P58162	845	842	838	842
P58172	838	835	832	835
P58182	842	835	832	836
P58192	828	825	825	826
P58202	832	825	819	825

以上檢品之產品氟化鈉(FNa)規格應介於 0.2%±10%

相當氟離子(F) 904ppm ± 10%

檢測者/日期: 林秉鈴 2022.04.29

漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

ThermoFisher Scientific

Meter Model : ION 2700
Serial No : 2721131
Operator ID : _____

Signature :

---

pH Calibration Data

Not Calibrated .

mV Calibration Data

Not Calibrated .

Ion Calibration Data

Last Cal Date&Time:
29-Apr-22 , 13:56:11

Ion Values	Slope
10	
	-58.5 mV
100	
	-57.5 mV
1000	

Measurement Data

---

1) 29-Apr-22 , 14:07:31
Mode-Ion,Sample ID: 0
10.1 ppm,-101.3 mV
20.2 C ATC

2) 29-Apr-22 , 14:09:20
Mode-Ion,Sample ID: 0
100.0 ppm,-159.5 mV
20.3 C ATC

3) 29-Apr-22 , 14:10:59
Mode-Ion,Sample ID: 0
1000 ppm,-217.0 mV
20.3 C ATC

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P5F-012

4) 29-Apr-22 , 14:44:26
Mode-Ion,Sample ID: 0
883 ppm,-213.9 mV
20.0 C ATC

5) 29-Apr-22 , 14:45:47
Mode-Ion,Sample ID: 0
876 ppm,-213.7 mV
20.0 C ATC

6) 29-Apr-22 , 14:47:10
Mode-Ion,Sample ID: 0
880 ppm,-213.8 mV
20.1 C ATC

P5F-022

7) 29-Apr-22 , 14:49:18
Mode-Ion,Sample ID: 0
869 ppm,-213.5 mV
20.1 C ATC

8) 29-Apr-22 , 14:50:56
Mode-Ion,Sample ID: 0
869 ppm,-213.5 mV
20.2 C ATC

林素鈴

9) 29-Apr-22 , 14:53:40
Mode-Ion,Sample ID: 0
866 ppm,-213.4 mV
20.2 C ATC

P5F-032

10) 29-Apr-22 , 14:55:34
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
20.0 C ATC

11) 29-Apr-22 , 14:56:11
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
19.9 C ATC

12) 29-Apr-22 , 14:57:06
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
19.9 C ATC

P5F-042

13) 29-Apr-22 , 14:58:51
Mode-Ion,Sample ID: 0
866 ppm,-213.4 mV
20.0 C ATC

14) 29-Apr-22 , 14:59:52
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
20.0 C ATC

15) 29-Apr-22 , 15:01:20
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.1 C ATC

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P5F-052

16) 29-Apr-22 , 15:03:01
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
20.1 C ATC

17) 29-Apr-22 , 15:04:48
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.2 C ATC

18) 29-Apr-22 , 15:05:41
Mode-Ion,Sample ID: 0
852 ppm,-213.0 mV
20.3 C ATC

P5F-062

19) 29-Apr-22 , 15:09:19
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.1 C ATC

20) 29-Apr-22 , 15:10:04
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

林素鈴

21) 29-Apr-22 , 15:11:12
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

P5F-072

22) 29-Apr-22 , 15:12:41
Mode-Ion,Sample ID: 0
876 ppm,-213.7 mV
20.0 C ATC

23) 29-Apr-22 , 15:13:11
Mode-Ion,Sample ID: 0
880 ppm,-213.8 mV
20.0 C ATC

24) 29-Apr-22 , 15:14:16
Mode-Ion,Sample ID: 0
873 ppm,-213.6 mV
20.0 C ATC

P5F-082

25) 29-Apr-22 , 15:15:42
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
20.0 C ATC

26) 29-Apr-22 , 15:16:21
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
20.0 C ATC

27) 29-Apr-22 , 15:17:36
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.1 C ATC

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漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

P5F-092

28) 29-Apr-22 , 15:19:40
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
20.1 C ATC

29) 29-Apr-22 , 15:21:03
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.0 C ATC

30) 29-Apr-22 , 15:22:15
Mode-Ion,Sample ID: 0
852 ppm,-213.0 mV
20.0 C ATC

P5F-102

31) 29-Apr-22 , 15:24:49
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
19.9 C ATC

林素鈴

32) 29-Apr-22 , 15:25:31
Mode-Ion,Sample ID: 0
852 ppm,-213.0 mV
19.9 C ATC

33) 29-Apr-22 , 15:26:14
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
19.9 C ATC

P5F-112

34) 29-Apr-22 , 15:27:06
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
19.9 C ATC

35) 29-Apr-22 , 15:28:09
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
19.9 C ATC

36) 29-Apr-22 , 15:31:50
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.1 C ATC

P5F-122

37) 29-Apr-22 , 15:32:59
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.1 C ATC

38) 29-Apr-22 , 15:33:41
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.1 C ATC

39) 29-Apr-22 , 15:34:28
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
20.0 C ATC

P5F-132

40) 29-Apr-22 , 15:36:03
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.0 C ATC

41) 29-Apr-22 , 15:36:53
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.2 C ATC

42) 29-Apr-22 , 15:38:41
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
20.1 C ATC

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P5F-142

43) 29-Apr-22 , 15:39:52
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.0 C ATC

44) 29-Apr-22 , 15:42:44
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.0 C ATC

45) 29-Apr-22 , 15:43:52
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

P5F-152

46) 29-Apr-22 , 15:44:52
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.0 C ATC

47) 29-Apr-22 , 15:45:30
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

林素鈴

48) 29-Apr-22 , 15:46:10
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

林素鈴

P5F-162

49) 29-Apr-22 , 15:48:05
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
19.8 C ATC

50) 29-Apr-22 , 15:49:20
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
19.8 C ATC

51) 29-Apr-22 , 15:51:37
Mode-Ion,Sample ID: 0
838 ppm,-212.6 mV
19.9 C ATC

P5F-172

52) 29-Apr-22 , 15:53:54
Mode-Ion,Sample ID: 0
838 ppm,-212.6 mV
19.9 C ATC

53) 29-Apr-22 , 15:54:57
Mode-Ion,Sample ID: 0
835 ppm,-212.5 mV
19.9 C ATC

54) 29-Apr-22 , 15:56:01
Mode-Ion,Sample ID: 0
832 ppm,-212.4 mV
19.9 C ATC

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漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

P58-182

55) 29-Apr-22 , 15:57:04
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
19.9 C ATC

56) 29-Apr-22 , 15:58:27
Mode-Ion,Sample ID: 0
835 ppm,-212.5 mV
19.9 C ATC

57) 29-Apr-22 , 15:59:52
Mode-Ion,Sample ID: 0
832 ppm,-212.4 mV
19.9 C ATC

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P58-192

58) 29-Apr-22 , 16:02:05
Mode-Ion,Sample ID: 0
828 ppm,-212.3 mV
19.7 C ATC

59) 29-Apr-22 , 16:03:21
Mode-Ion,Sample ID: 0
825 ppm,-212.2 mV
19.7 C ATC

林素鈴

60) 29-Apr-22 , 16:05:23
Mode-Ion,Sample ID: 0
825 ppm,-212.2 mV
19.9 C ATC

P58-202

61) 29-Apr-22 , 16:06:17
Mode-Ion,Sample ID: 0
832 ppm,-212.4 mV
19.9 C ATC

62) 29-Apr-22 , 16:07:41
Mode-Ion,Sample ID: 0
825 ppm,-212.2 mV
20.0 C ATC

63) 29-Apr-22 , 16:09:03
Mode-Ion,Sample ID: 0
819 ppm,-212.0 mV
20.0 C ATC

Lin 2022.04.29

漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處:

ThermoFisher Scientific

Meter Model : ION 2700
Serial No : 2721131
Operator ID : _____

Signature :

---

pH Calibration Data

Not Calibrated .

mV Calibration Data

Not Calibrated .

Ion Calibration Data

Last Cal Date&Time:
29-Apr-22 , 13:56:11

Ion Values	Slope
10	
	-58.5 mV
100	
	-57.5 mV
1000	

Measurement Data

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1) 29-Apr-22 , 14:07:31
Mode-Ion,Sample ID: 0
10.1 ppm,-101.3 mV
20.2 C ATC

2) 29-Apr-22 , 14:09:20
Mode-Ion,Sample ID: 0
100.0 ppm,-159.5 mV
20.3 C ATC

3) 29-Apr-22 , 14:10:59
Mode-Ion,Sample ID: 0
1000 ppm,-217.0 mV
20.3 C ATC

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P5F-012

4) 29-Apr-22 , 14:44:26
Mode-Ion,Sample ID: 0
883 ppm,-213.9 mV
20.0 C ATC

5) 29-Apr-22 , 14:45:47
Mode-Ion,Sample ID: 0
876 ppm,-213.7 mV
20.0 C ATC

6) 29-Apr-22 , 14:47:10
Mode-Ion,Sample ID: 0
880 ppm,-213.8 mV
20.1 C ATC

P5F-022

7) 29-Apr-22 , 14:49:18
Mode-Ion,Sample ID: 0
869 ppm,-213.5 mV
20.1 C ATC

8) 29-Apr-22 , 14:50:56
Mode-Ion,Sample ID: 0
869 ppm,-213.5 mV
20.2 C ATC

林素鈴

9) 29-Apr-22 , 14:53:40
Mode-Ion,Sample ID: 0
866 ppm,-213.4 mV
20.2 C ATC

P5F-032

10) 29-Apr-22 , 14:55:34
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
20.0 C ATC

11) 29-Apr-22 , 14:56:11
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
19.9 C ATC

12) 29-Apr-22 , 14:57:06
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
19.9 C ATC

P5F-042

13) 29-Apr-22 , 14:58:51
Mode-Ion,Sample ID: 0
866 ppm,-213.4 mV
20.0 C ATC

14) 29-Apr-22 , 14:59:52
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
20.0 C ATC

15) 29-Apr-22 , 15:01:20
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.1 C ATC

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P5F-052

16) 29-Apr-22 , 15:03:01
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
20.1 C ATC

17) 29-Apr-22 , 15:04:48
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.2 C ATC

18) 29-Apr-22 , 15:05:41
Mode-Ion,Sample ID: 0
852 ppm,-213.0 mV
20.3 C ATC

P5F-062

19) 29-Apr-22 , 15:09:19
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.1 C ATC

20) 29-Apr-22 , 15:10:04
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

林素鈴

林素鈴

21) 29-Apr-22 , 15:11:12
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

P5F-072

22) 29-Apr-22 , 15:12:41
Mode-Ion,Sample ID: 0
876 ppm,-213.7 mV
20.0 C ATC

23) 29-Apr-22 , 15:13:11
Mode-Ion,Sample ID: 0
880 ppm,-213.8 mV
20.0 C ATC

24) 29-Apr-22 , 15:14:16
Mode-Ion,Sample ID: 0
873 ppm,-213.6 mV
20.0 C ATC

P5F-082

25) 29-Apr-22 , 15:15:42
Mode-Ion,Sample ID: 0
862 ppm,-213.3 mV
20.0 C ATC

26) 29-Apr-22 , 15:16:21
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
20.0 C ATC

27) 29-Apr-22 , 15:17:36
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.1 C ATC

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漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

P58-092

28) 29-Apr-22 , 15:19:40
Mode-Ion,Sample ID: 0
859 ppm,-213.2 mV
20.1 C ATC

29) 29-Apr-22 , 15:21:03
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.0 C ATC

30) 29-Apr-22 , 15:22:15
Mode-Ion,Sample ID: 0
852 ppm,-213.0 mV
20.0 C ATC

P58-102

31) 29-Apr-22 , 15:24:49
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
19.9 C ATC

林素鈴

32) 29-Apr-22 , 15:25:31
Mode-Ion,Sample ID: 0
852 ppm,-213.0 mV
19.9 C ATC

33) 29-Apr-22 , 15:26:14
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
19.9 C ATC

P58-112

34) 29-Apr-22 , 15:27:06
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
19.9 C ATC

35) 29-Apr-22 , 15:28:09
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
19.9 C ATC

36) 29-Apr-22 , 15:31:50
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.1 C ATC

P58-122

37) 29-Apr-22 , 15:32:59
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.1 C ATC

38) 29-Apr-22 , 15:33:41
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.1 C ATC

39) 29-Apr-22 , 15:34:28
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
20.0 C ATC

P58-132

40) 29-Apr-22 , 15:36:03
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.0 C ATC

41) 29-Apr-22 , 15:36:53
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.2 C ATC

42) 29-Apr-22 , 15:38:41
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
20.1 C ATC

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P58-142

43) 29-Apr-22 , 15:39:52
Mode-Ion,Sample ID: 0
855 ppm,-213.1 mV
20.0 C ATC

44) 29-Apr-22 , 15:42:44
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.0 C ATC

45) 29-Apr-22 , 15:43:52
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

P58-152

46) 29-Apr-22 , 15:44:52
Mode-Ion,Sample ID: 0
849 ppm,-212.9 mV
20.0 C ATC

47) 29-Apr-22 , 15:45:30
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

林素鈴

48) 29-Apr-22 , 15:46:10
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
20.0 C ATC

林素鈴

P58-162

49) 29-Apr-22 , 15:48:05
Mode-Ion,Sample ID: 0
845 ppm,-212.8 mV
19.8 C ATC

50) 29-Apr-22 , 15:49:20
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
19.8 C ATC

51) 29-Apr-22 , 15:51:37
Mode-Ion,Sample ID: 0
838 ppm,-212.6 mV
19.9 C ATC

P58-172

52) 29-Apr-22 , 15:53:54
Mode-Ion,Sample ID: 0
838 ppm,-212.6 mV
19.9 C ATC

53) 29-Apr-22 , 15:54:57
Mode-Ion,Sample ID: 0
835 ppm,-212.5 mV
19.9 C ATC

54) 29-Apr-22 , 15:56:01
Mode-Ion,Sample ID: 0
832 ppm,-212.4 mV
19.9 C ATC

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漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

P58-182

55) 29-Apr-22 , 15:57:04
Mode-Ion,Sample ID: 0
842 ppm,-212.7 mV
19.9 C ATC

56) 29-Apr-22 , 15:58:27
Mode-Ion,Sample ID: 0
835 ppm,-212.5 mV
19.9 C ATC

57) 29-Apr-22 , 15:59:52
Mode-Ion,Sample ID: 0
832 ppm,-212.4 mV
19.9 C ATC

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P58-192

林素鈴

58) 29-Apr-22 , 16:02:05
Mode-Ion,Sample ID: 0
828 ppm,-212.3 mV
19.7 C ATC

59) 29-Apr-22 , 16:03:21
Mode-Ion,Sample ID: 0
825 ppm,-212.2 mV
19.7 C ATC

林素鈴

60) 29-Apr-22 , 16:05:23
Mode-Ion,Sample ID: 0
825 ppm,-212.2 mV
19.9 C ATC

P58-202

61) 29-Apr-22 , 16:06:17
Mode-Ion,Sample ID: 0
832 ppm,-212.4 mV
19.9 C ATC

62) 29-Apr-22 , 16:07:41
Mode-Ion,Sample ID: 0
825 ppm,-212.2 mV
20.0 C ATC

63) 29-Apr-22 , 16:09:03
Mode-Ion,Sample ID: 0
819 ppm,-212.0 mV
20.0 C ATC

Lin 2022 04 29