

# 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
P58331	氟化鈉(FNa)規格應介於 0.2%±10% 相當氟離子(F) 904ppm ± 10%	911	符合
P58341		901	符合
P58351		894	符合
P58361		904	符合
P58371		897	符合
P58381		890	符合
P58391		900	符合
P58401		910	符合
P58411		911	符合
P58421		874	符合
P58431		897	符合
P58441		895	符合
P58451		882	符合
P58461		891	符合
P58471		891	符合
P58481		883	符合
P58491		866	符合
P58501		882	符合

### Conclusion:

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



Compiled By/Date: yihui lee / 2021.10.29 Approved By/Date: Cindy deng 2021.10.29

# 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)	2021.12.30
Fluoride ISA Tisabl(F00IS01)	2022/1/30

### (4) 氟離子標準液測量結果

10ppm	100ppm	1000ppm
10.1 ppm	102 ppm	1004 ppm

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### 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)
P58331	912	909	912	911
P58341	901	901	901	901
P58351	894	894	894	894
P58361	905	905	901	904
P58371	898	898	894	897
P58381	887	891	891	890
P58391	901	898	901	900
P58401	905	912	912	910
P58411	912	912	909	911
P58421	876	876	869	874
P58431	898	898	894	897
P58441	894	894	898	895
P58451	883	883	880	882
P58461	891	891	891	891
P58471	894	891	887	891
P58481	883	883	883	883
P58491	869	866	863	866
P58501	883	883	880	882

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：林素鈴  
2021/10/29



# 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-Oct-21 , 13:57:24

Ion Values Slope

10	-57.4 mV
100	-57.6 mV
1000	

Measurement Data

1) 29-Oct-21 , 14:03:44  
Mode-Ion, Sample ID: 0  
10.1 ppm, -33.3 mV  
19.9 C ATC

2) 29-Oct-21 , 14:04:58  
Mode-Ion, Sample ID: 0  
102 ppm, -90.8 mV  
19.9 C ATC

3) 29-Oct-21 , 14:07:41  
Mode-Ion, Sample ID: 0  
1004 ppm, -148.1 mV  
19.8 C ATC

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4) 29-Oct-21 , 14:21:40  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.7 C ATC

5) 29-Oct-21 , 14:22:46  
Mode-Ion, Sample ID: 0  
909 ppm, -145.6 mV  
19.7 C ATC

6) 29-Oct-21 , 14:23:48  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.7 C ATC

7) 29-Oct-21 , 14:24:32  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.7 C ATC

8) 29-Oct-21 , 14:25:05  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.6 C ATC

9) 29-Oct-21 , 14:25:32  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.6 C ATC

10) 29-Oct-21 , 14:26:17  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

11) 29-Oct-21 , 14:26:43  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

12) 29-Oct-21 , 14:27:23  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

13) 29-Oct-21 , 14:28:03  
Mode-Ion, Sample ID: 0  
905 ppm, -145.5 mV  
19.6 C ATC

14) 29-Oct-21 , 14:28:30  
Mode-Ion, Sample ID: 0  
905 ppm, -145.5 mV  
19.6 C ATC

15) 29-Oct-21 , 14:28:49  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.5 C ATC

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16) 29-Oct-21 , 14:30:15  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC

17) 29-Oct-21 , 14:30:48  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC

18) 29-Oct-21 , 14:32:00  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.5 C ATC

19) 29-Oct-21 , 14:33:00  
Mode-Ion, Sample ID: 0  
887 ppm, -145.0 mV  
19.5 C ATC

20) 29-Oct-21 , 14:33:19  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.6 C ATC

21) 29-Oct-21 , 14:33:49  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.6 C ATC

22) 29-Oct-21 , 14:34:37  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.5 C ATC

23) 29-Oct-21 , 14:34:53  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.5 C ATC

24) 29-Oct-21 , 14:35:35  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.6 C ATC

25) 29-Oct-21 , 14:37:10  
Mode-Ion, Sample ID: 0  
905 ppm, -145.5 mV  
19.4 C ATC

26) 29-Oct-21 , 14:38:51  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.6 C ATC

27) 29-Oct-21 , 14:39:24  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.6 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:

- p58-411*
- 28) 29-Oct-21, 14:40:51  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.8 C ATC
  - 29) 29-Oct-21, 14:42:19  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.8 C ATC
  - 30) 29-Oct-21, 14:43:31  
Mode-Ion, Sample ID: 0  
909 ppm, -145.6 mV  
19.8 C ATC
  - p58-421*  
31) 29-Oct-21, 14:47:05  
Mode-Ion, Sample ID: 0  
876 ppm, -144.7 mV  
19.7 C ATC
  - 32) 29-Oct-21, 14:48:31  
Mode-Ion, Sample ID: 0  
876 ppm, -144.7 mV  
19.6 C ATC
  - 33) 29-Oct-21, 14:49:25  
Mode-Ion, Sample ID: 0  
869 ppm, -144.5 mV  
19.4 C ATC
  - p58-431*  
34) 29-Oct-21, 14:50:17  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC
  - 35) 29-Oct-21, 14:51:19  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC
  - 36) 29-Oct-21, 14:52:08  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC
  - p58-441*  
37) 29-Oct-21, 14:53:30  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC
  - 38) 29-Oct-21, 14:54:40  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC
  - 39) 29-Oct-21, 14:55:35  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.7 C ATC

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- p58-451*
- 40) 29-Oct-21, 14:57:37  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.7 C ATC
  - 41) 29-Oct-21, 14:58:47  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.7 C ATC
  - 42) 29-Oct-21, 14:59:46  
Mode-Ion, Sample ID: 0  
880 ppm, -144.8 mV  
19.6 C ATC
  - p58-461*  
43) 29-Oct-21, 15:00:38  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.5 C ATC
  - 44) 29-Oct-21, 15:01:50  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.3 C ATC
  - 45) 29-Oct-21, 15:02:35  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.4 C ATC
  - p58-471*  
46) 29-Oct-21, 15:04:00  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.2 C ATC
  - 47) 29-Oct-21, 15:05:22  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.5 C ATC
  - 48) 29-Oct-21, 15:06:40  
Mode-Ion, Sample ID: 0  
887 ppm, -145.0 mV  
19.6 C ATC
  - p58-481*  
49) 29-Oct-21, 15:08:00  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.7 C ATC
  - 50) 29-Oct-21, 15:10:13  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.8 C ATC
  - 51) 29-Oct-21, 15:11:36  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.8 C ATC

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- p58-491*
- 52) 29-Oct-21, 15:12:59  
Mode-Ion, Sample ID: 0  
869 ppm, -144.5 mV  
19.8 C ATC
  - 53) 29-Oct-21, 15:14:32  
Mode-Ion, Sample ID: 0  
866 ppm, -144.4 mV  
19.6 C ATC
  - 54) 29-Oct-21, 15:15:37  
Mode-Ion, Sample ID: 0  
863 ppm, -144.3 mV  
19.5 C ATC
  - p58-501*  
55) 29-Oct-21, 15:16:19  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.5 C ATC
  - 56) 29-Oct-21, 15:18:02  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.3 C ATC
  - 57) 29-Oct-21, 15:19:49  
Mode-Ion, Sample ID: 0  
880 ppm, -144.8 mV  
19.2 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:

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-Oct-21 , 13:57:24

Ion Values Slope

10	-57.4 mV
100	-57.6 mV
1000	

Measurement Data

1) 29-Oct-21 , 14:03:44  
Mode-Ion, Sample ID: 0  
10.1 ppm, -33.3 mV  
19.9 C ATC

2) 29-Oct-21 , 14:04:58  
Mode-Ion, Sample ID: 0  
102 ppm, -90.8 mV  
19.9 C ATC

3) 29-Oct-21 , 14:07:41  
Mode-Ion, Sample ID: 0  
1004 ppm, -148.1 mV  
19.8 C ATC

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p58-331

4) 29-Oct-21 , 14:21:40  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.7 C ATC

5) 29-Oct-21 , 14:22:46  
Mode-Ion, Sample ID: 0  
909 ppm, -145.6 mV  
19.7 C ATC

6) 29-Oct-21 , 14:23:48  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.7 C ATC

p58-341

7) 29-Oct-21 , 14:24:32  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.7 C ATC

8) 29-Oct-21 , 14:25:05  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.6 C ATC

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9) 29-Oct-21 , 14:25:32  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.6 C ATC

p58-351

10) 29-Oct-21 , 14:26:17  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

11) 29-Oct-21 , 14:26:43  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

12) 29-Oct-21 , 14:27:23  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

p58-361

13) 29-Oct-21 , 14:28:03  
Mode-Ion, Sample ID: 0  
905 ppm, -145.5 mV  
19.6 C ATC

14) 29-Oct-21 , 14:28:30  
Mode-Ion, Sample ID: 0  
905 ppm, -145.5 mV  
19.6 C ATC

15) 29-Oct-21 , 14:28:49  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.5 C ATC

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p58-371

16) 29-Oct-21 , 14:30:15  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC

17) 29-Oct-21 , 14:30:48  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC

18) 29-Oct-21 , 14:32:00  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.5 C ATC

p58-381

19) 29-Oct-21 , 14:33:00  
Mode-Ion, Sample ID: 0  
887 ppm, -145.0 mV  
19.5 C ATC

20) 29-Oct-21 , 14:33:19  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.6 C ATC

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21) 29-Oct-21 , 14:33:49  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.6 C ATC

p58-391

22) 29-Oct-21 , 14:34:37  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.5 C ATC

23) 29-Oct-21 , 14:34:53  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.5 C ATC

24) 29-Oct-21 , 14:35:35  
Mode-Ion, Sample ID: 0  
901 ppm, -145.4 mV  
19.6 C ATC

p58-401

25) 29-Oct-21 , 14:37:10  
Mode-Ion, Sample ID: 0  
905 ppm, -145.5 mV  
19.4 C ATC

26) 29-Oct-21 , 14:38:51  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.6 C ATC

27) 29-Oct-21 , 14:39:24  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.6 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：

*p58-411*

28) 29-Oct-21 , 14:40:51  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.8 C ATC

29) 29-Oct-21 , 14:42:19  
Mode-Ion, Sample ID: 0  
912 ppm, -145.7 mV  
19.8 C ATC

30) 29-Oct-21 , 14:43:31  
Mode-Ion, Sample ID: 0  
909 ppm, -145.6 mV  
19.8 C ATC

*p58-421*  
31) 29-Oct-21 , 14:47:05  
Mode-Ion, Sample ID: 0  
876 ppm, -144.7 mV  
19.7 C ATC

32) 29-Oct-21 , 14:48:31  
Mode-Ion, Sample ID: 0  
876 ppm, -144.7 mV  
19.6 C ATC

33) 29-Oct-21 , 14:49:25  
Mode-Ion, Sample ID: 0  
869 ppm, -144.5 mV  
19.4 C ATC

*p58-431*  
34) 29-Oct-21 , 14:50:17  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC

35) 29-Oct-21 , 14:51:19  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.6 C ATC

36) 29-Oct-21 , 14:52:08  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

*p58-441*  
37) 29-Oct-21 , 14:53:30  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

38) 29-Oct-21 , 14:54:40  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.6 C ATC

39) 29-Oct-21 , 14:55:35  
Mode-Ion, Sample ID: 0  
898 ppm, -145.3 mV  
19.7 C ATC

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*p58-451*

40) 29-Oct-21 , 14:57:37  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.7 C ATC

41) 29-Oct-21 , 14:58:47  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.7 C ATC

42) 29-Oct-21 , 14:59:46  
Mode-Ion, Sample ID: 0  
880 ppm, -144.8 mV  
19.6 C ATC

*p58-461*  
43) 29-Oct-21 , 15:00:38  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.5 C ATC

44) 29-Oct-21 , 15:01:50  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.3 C ATC

45) 29-Oct-21 , 15:02:35  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.4 C ATC

*p58-471*  
46) 29-Oct-21 , 15:04:00  
Mode-Ion, Sample ID: 0  
894 ppm, -145.2 mV  
19.2 C ATC

47) 29-Oct-21 , 15:05:22  
Mode-Ion, Sample ID: 0  
891 ppm, -145.1 mV  
19.5 C ATC

48) 29-Oct-21 , 15:06:40  
Mode-Ion, Sample ID: 0  
887 ppm, -145.0 mV  
19.6 C ATC

*p58-481*  
49) 29-Oct-21 , 15:08:00  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.7 C ATC

50) 29-Oct-21 , 15:10:13  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.8 C ATC

51) 29-Oct-21 , 15:11:36  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.8 C ATC

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*p58-491*

52) 29-Oct-21 , 15:12:59  
Mode-Ion, Sample ID: 0  
869 ppm, -144.5 mV  
19.8 C ATC

53) 29-Oct-21 , 15:14:32  
Mode-Ion, Sample ID: 0  
866 ppm, -144.4 mV  
19.6 C ATC

54) 29-Oct-21 , 15:15:37  
Mode-Ion, Sample ID: 0  
863 ppm, -144.3 mV  
19.5 C ATC

*p58-501*  
55) 29-Oct-21 , 15:16:19  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.5 C ATC

56) 29-Oct-21 , 15:18:02  
Mode-Ion, Sample ID: 0  
883 ppm, -144.9 mV  
19.3 C ATC

57) 29-Oct-21 , 15:19:49  
Mode-Ion, Sample ID: 0  
880 ppm, -144.8 mV  
19.2 C ATC

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