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
P58352	氟化鈉(NaF)規格應介於 0.2%±10% 相當氟離子(F) 904ppm ± 10%	877	符合
P58362		870	符合
P58372		870	符合
P58382		873	符合
P58392		872	符合
P58402		870	符合
P58412		876	符合
P58422		867	符合
P58432		855	符合
P58442		859	符合
P58452		870	符合
P58462		871	符合
P58472		878	符合
P58482		882	符合
P58492		871	符合
P58502		879	符合
P58512		862	符合
P58522		892	符合
P85532		871	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 台北市三重區中正北路560巷36號

Compiled By/Date: yihui Lee /2022.11.04 Approved By/Date: Cindy deng 2022.11.04

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 Tisab1(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 Tisab1(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 Tisab1(F00IS01)	2023.11.30

(4) 氟離子標準液測量結果

10ppm	100ppm	1000ppm
10.0	101	1000

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)
P58352	878	882	871	877
P58362	875	864	871	870
P58372	868	875	868	870
P58382	878	871	871	873
P58392	875	871	871	872
P58402	868	868	875	870
P58412	875	878	875	876
P58422	868	868	864	867
P58432	857	857	850	855
P58442	854	860	864	859
P58452	868	875	868	870
P58462	871	864	878	871
P58472	882	878	875	878
P58482	885	875	885	882
P58492	871	864	878	871
P58502	878	878	882	879
P58512	857	868	860	862
P58522	889	893	893	892
P58532	875	868	871	871

以上檢品之產品氟化鈉(NaF)規格應介於 0.2%±10%

相當氟離子(F) 904ppm ± 10%

檢測者/日期: 林素鈴 2022.11.04

漱口水實驗序與紀錄

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:
03-Nov-22 , 16:17:25

Ion Values	Slope
10	
	-57.9 mV
100	
	-56.7 mV
1000	

Measurement Data

---

1) 03-Nov-22 , 16:46:21
Mode-Ion,Sample ID: 0
10.0 ppm,-116.6 mV
21.9 C ATC

2) 03-Nov-22 , 16:50:01
Mode-Ion,Sample ID: 0
101 ppm,-174.6 mV
22.1 C ATC

3) 03-Nov-22 , 16:57:00
Mode-Ion,Sample ID: 0
1000 ppm,-231.1 mV
21.6 C ATC

Lin 2022.11.03

P58352

4) 03-Nov-22 , 17:03:14
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
22.0 C ATC

5) 03-Nov-22 , 17:04:09
Mode-Ion,Sample ID: 0
882 ppm,-228.0 mV
22.2 C ATC

6) 03-Nov-22 , 17:05:05
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.3 C ATC

P58362

7) 03-Nov-22 , 17:05:42
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.4 C ATC

8) 03-Nov-22 , 17:06:19
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
22.5 C ATC

9) 03-Nov-22 , 17:06:56
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.5 C ATC

P58372

10) 03-Nov-22 , 17:07:57
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.4 C ATC

林素鈴

11) 03-Nov-22 , 17:08:32
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.4 C ATC

12) 03-Nov-22 , 17:09:15
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.2 C ATC

P58382

13) 03-Nov-22 , 17:09:50
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
22.2 C ATC

14) 03-Nov-22 , 17:10:05
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.2 C ATC

15) 03-Nov-22 , 17:10:39
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.1 C ATC

P58392

16) 03-Nov-22 , 17:11:12
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.3 C ATC

17) 03-Nov-22 , 17:11:40
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.1 C ATC

18) 03-Nov-22 , 17:12:26
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
21.9 C ATC

Lin 2022.11.03

P58402

19) 03-Nov-22 , 17:13:11
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

20) 03-Nov-22 , 17:14:17
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

21) 03-Nov-22 , 17:15:09
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.0 C ATC

P58412

22) 03-Nov-22 , 17:16:16
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.0 C ATC

23) 03-Nov-22 , 17:17:04
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.9 C ATC

24) 03-Nov-22 , 17:18:07
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.0 C ATC

林素鈴

P58422

25) 03-Nov-22 , 17:20:01
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

26) 03-Nov-22 , 17:21:29
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

27) 03-Nov-22 , 17:22:22
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.8 C ATC

P58432

28) 03-Nov-22 , 17:23:34
Mode-Ion,Sample ID: 0
857 ppm,-227.3 mV
21.8 C ATC

29) 03-Nov-22 , 17:24:12
Mode-Ion,Sample ID: 0
857 ppm,-227.3 mV
21.8 C ATC

30) 03-Nov-22 , 17:25:12
Mode-Ion,Sample ID: 0
850 ppm,-227.1 mV
21.8 C ATC

Lin 2022.11.03

漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

P58442

31) 03-Nov-22 , 17:26:14
Mode-Ion,Sample ID: 0
854 ppm,-227.2 mV
21.9 C ATC

32) 03-Nov-22 , 17:27:33
Mode-Ion,Sample ID: 0
860 ppm,-227.4 mV
21.9 C ATC

33) 03-Nov-22 , 17:28:15
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.8 C ATC

P58452

34) 03-Nov-22 , 17:29:09
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.8 C ATC

35) 03-Nov-22 , 17:30:15
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
21.8 C ATC

36) 03-Nov-22 , 17:31:17
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.7 C ATC

P58462

37) 03-Nov-22 , 17:32:31
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
21.6 C ATC

38) 03-Nov-22 , 17:33:22
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.5 C ATC

39) 03-Nov-22 , 17:34:11
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.6 C ATC

P58472

40) 03-Nov-22 , 17:35:21
Mode-Ion,Sample ID: 0
882 ppm,-228.0 mV
21.7 C ATC

41) 03-Nov-22 , 17:36:16
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.7 C ATC

42) 03-Nov-22 , 17:37:12
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
21.6 C ATC

Lin 2022.11.03

P58482

43) 03-Nov-22 , 17:38:06
Mode-Ion,Sample ID: 0
885 ppm,-228.1 mV
21.9 C ATC

44) 03-Nov-22 , 17:39:32
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
21.8 C ATC

45) 03-Nov-22 , 17:40:38
Mode-Ion,Sample ID: 0
885 ppm,-228.1 mV
21.8 C ATC

P58492

46) 03-Nov-22 , 17:41:35
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
21.8 C ATC

47) 03-Nov-22 , 17:42:43
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.8 C ATC

48) 03-Nov-22 , 17:43:47
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.9 C ATC

林素鈴

P58502

49) 03-Nov-22 , 17:44:26
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.9 C ATC

50) 03-Nov-22 , 17:46:02
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
22.1 C ATC

51) 03-Nov-22 , 17:47:18
Mode-Ion,Sample ID: 0
882 ppm,-228.0 mV
22.2 C ATC

P58512

52) 03-Nov-22 , 17:48:39
Mode-Ion,Sample ID: 0
857 ppm,-227.3 mV
22.3 C ATC

53) 03-Nov-22 , 17:49:50
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.5 C ATC

54) 03-Nov-22 , 17:50:31
Mode-Ion,Sample ID: 0
860 ppm,-227.4 mV
22.5 C ATC

Lin 2022.11.03

P58522

55) 03-Nov-22 , 17:51:41
Mode-Ion,Sample ID: 0
889 ppm,-228.2 mV
22.4 C ATC

56) 03-Nov-22 , 17:52:57
Mode-Ion,Sample ID: 0
893 ppm,-228.3 mV
22.4 C ATC

57) 03-Nov-22 , 17:53:39
Mode-Ion,Sample ID: 0
893 ppm,-228.3 mV
22.3 C ATC

P58532

58) 03-Nov-22 , 17:54:13
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.3 C ATC

59) 03-Nov-22 , 17:55:16
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.2 C ATC

林素鈴

60) 03-Nov-22 , 17:56:08
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.1 C ATC

Lin 2022.11.03

漱口水與紀錄

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:
03-Nov-22 , 16:17:25

Ion Values	Slope
10	
	-57.9 mV
100	
	-56.7 mV
1000	

Measurement Data

---

1) 03-Nov-22 , 16:46:21
Mode-Ion,Sample ID: 0
10.0 ppm,-116.6 mV
21.9 C ATC

2) 03-Nov-22 , 16:50:01
Mode-Ion,Sample ID: 0
101 ppm,-174.6 mV
22.1 C ATC

3) 03-Nov-22 , 16:57:00
Mode-Ion,Sample ID: 0
1000 ppm,-231.1 mV
21.6 C ATC

Lin 2022.11.03

P58352

4) 03-Nov-22 , 17:03:14
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
22.0 C ATC

5) 03-Nov-22 , 17:04:09
Mode-Ion,Sample ID: 0
882 ppm,-228.0 mV
22.2 C ATC

6) 03-Nov-22 , 17:05:05
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.3 C ATC

P58362

7) 03-Nov-22 , 17:05:42
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.4 C ATC

8) 03-Nov-22 , 17:06:19
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
22.5 C ATC

9) 03-Nov-22 , 17:06:56
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.5 C ATC

P58372

10) 03-Nov-22 , 17:07:57
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.4 C ATC

11) 03-Nov-22 , 17:08:32
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.4 C ATC

12) 03-Nov-22 , 17:09:15
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.2 C ATC

P58382

13) 03-Nov-22 , 17:09:50
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
22.2 C ATC

14) 03-Nov-22 , 17:10:05
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.2 C ATC

15) 03-Nov-22 , 17:10:39
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.1 C ATC

P58392

16) 03-Nov-22 , 17:11:12
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.3 C ATC

17) 03-Nov-22 , 17:11:40
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.1 C ATC

18) 03-Nov-22 , 17:12:26
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
21.9 C ATC

Lin 2022.11.03

P58402

19) 03-Nov-22 , 17:13:11
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

20) 03-Nov-22 , 17:14:17
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

21) 03-Nov-22 , 17:15:09
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.0 C ATC

P58412

22) 03-Nov-22 , 17:16:16
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.0 C ATC

23) 03-Nov-22 , 17:17:04
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.9 C ATC

24) 03-Nov-22 , 17:18:07
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.0 C ATC

P58422

25) 03-Nov-22 , 17:20:01
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

26) 03-Nov-22 , 17:21:29
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.9 C ATC

27) 03-Nov-22 , 17:22:22
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.8 C ATC

P58432

28) 03-Nov-22 , 17:23:34
Mode-Ion,Sample ID: 0
857 ppm,-227.3 mV
21.8 C ATC

29) 03-Nov-22 , 17:24:12
Mode-Ion,Sample ID: 0
857 ppm,-227.3 mV
21.8 C ATC

30) 03-Nov-22 , 17:25:12
Mode-Ion,Sample ID: 0
850 ppm,-227.1 mV
21.8 C ATC

Lin 2022.11.03

漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

P58442

31) 03-Nov-22 , 17:26:14
Mode-Ion,Sample ID: 0
854 ppm,-227.2 mV
21.9 C ATC

32) 03-Nov-22 , 17:27:33
Mode-Ion,Sample ID: 0
860 ppm,-227.4 mV
21.9 C ATC

33) 03-Nov-22 , 17:28:15
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.8 C ATC

P58452

34) 03-Nov-22 , 17:29:09
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.8 C ATC

35) 03-Nov-22 , 17:30:15
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
21.8 C ATC

林素珍

36) 03-Nov-22 , 17:31:17
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
21.7 C ATC

P58462

37) 03-Nov-22 , 17:32:31
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
21.6 C ATC

38) 03-Nov-22 , 17:33:22
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.5 C ATC

39) 03-Nov-22 , 17:34:11
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.6 C ATC

P58472

40) 03-Nov-22 , 17:35:21
Mode-Ion,Sample ID: 0
882 ppm,-228.0 mV
21.7 C ATC

41) 03-Nov-22 , 17:36:16
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.7 C ATC

42) 03-Nov-22 , 17:37:12
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
21.6 C ATC

Lin 2022/11/03

P58482

43) 03-Nov-22 , 17:38:06
Mode-Ion,Sample ID: 0
885 ppm,-228.1 mV
21.9 C ATC

44) 03-Nov-22 , 17:39:32
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
21.8 C ATC

45) 03-Nov-22 , 17:40:38
Mode-Ion,Sample ID: 0
885 ppm,-228.1 mV
21.8 C ATC

P58492

46) 03-Nov-22 , 17:41:35
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
21.8 C ATC

47) 03-Nov-22 , 17:42:43
Mode-Ion,Sample ID: 0
864 ppm,-227.5 mV
21.8 C ATC

林素珍

48) 03-Nov-22 , 17:43:47
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.9 C ATC

P58502

49) 03-Nov-22 , 17:44:26
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
21.9 C ATC

50) 03-Nov-22 , 17:46:02
Mode-Ion,Sample ID: 0
878 ppm,-227.9 mV
22.1 C ATC

51) 03-Nov-22 , 17:47:18
Mode-Ion,Sample ID: 0
882 ppm,-228.0 mV
22.2 C ATC

P58512

52) 03-Nov-22 , 17:48:39
Mode-Ion,Sample ID: 0
857 ppm,-227.3 mV
22.3 C ATC

53) 03-Nov-22 , 17:49:50
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.5 C ATC

54) 03-Nov-22 , 17:50:31
Mode-Ion,Sample ID: 0
860 ppm,-227.4 mV
22.5 C ATC

Lin 2022/11/03

P58522

55) 03-Nov-22 , 17:51:41
Mode-Ion,Sample ID: 0
889 ppm,-228.2 mV
22.4 C ATC

56) 03-Nov-22 , 17:52:57
Mode-Ion,Sample ID: 0
893 ppm,-228.3 mV
22.4 C ATC

57) 03-Nov-22 , 17:53:39
Mode-Ion,Sample ID: 0
893 ppm,-228.3 mV
22.3 C ATC

P58532

58) 03-Nov-22 , 17:54:13
Mode-Ion,Sample ID: 0
875 ppm,-227.8 mV
22.3 C ATC

59) 03-Nov-22 , 17:55:16
Mode-Ion,Sample ID: 0
868 ppm,-227.6 mV
22.2 C ATC

林素珍

60) 03-Nov-22 , 17:56:08
Mode-Ion,Sample ID: 0
871 ppm,-227.7 mV
22.1 C ATC

Lin 2022/11/03