

西德有機化學藥品(股)公司

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

檢體批號	規格	結果	判定
P58424	氟化鈉(NaF)規格應 介於 0.2%±10% 相當氟離子(F) 904ppm ± 10%	975	符合
P58434		970	符合
P58444		969	符合
P58454		961	符合
P58464		962	符合
P58474		958	符合
P58484		958	符合
P58494		946	符合
P58504		952	符合
P58514		962	符合
P58524		943	符合
P58534		937	符合
P58544		939	符合
P58554		942	符合
P58564		943	符合
P58574		936	符合
P58584		947	符合

Compiled By/Date: yi hui Lee / 2024.09.27 Approved By/Date: Cindy deng / 2024.09.27



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 Tisabl，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)
P58424	980	976	969	975
P58434	969	973	969	970
P58444	969	969	969	969
P58454	965	961	957	961
P58464	965	961	961	962
P58474	957	961	957	958
P58484	957	957	961	958
P58494	935	946	957	946
P58504	946	957	953	952
P58514	965	957	965	962
P58524	942	938	950	943
P58534	931	942	938	937
P58544	935	931	950	939
P58554	946	942	938	942
P58564	935	938	957	943
P58574	924	946	938	936
P58584	950	946	946	947

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
2024.09.27

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

(2) 100ppm 氟離子標準液取 1000 ppm 氟離子標準液 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 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(223045047)	2025.05.12
Fluoride ISA Tisabl(F00IS01)	2025.12.30

(4) 氟離子標準液測量結果

10ppm	100ppm	1000ppm
10.1	102	1000

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:
27-Sep-24 , 13:20:38

Ion Values	Slope
10	-58.7 mV
100	-58.0 mV
1000	

Measurement Data

- 1) 27-Sep-24 , 13:29:38
Mode-Ion, Sample ID: 0
10.1 ppm, -68.6 mV
22.0 C ATC
- 2) 27-Sep-24 , 13:30:48
Mode-Ion, Sample ID: 0
102 ppm, -127.5 mV
21.9 C ATC
- 3) 27-Sep-24 , 13:33:35
Mode-Ion, Sample ID: 0
1000 ppm, -185.1 mV
21.9 C ATC

P58-424

- 4) 27-Sep-24 , 14:07:13
Mode-Ion, Sample ID: 0
980 ppm, -184.6 mV
22.0 C ATC
- 5) 27-Sep-24 , 14:08:42
Mode-Ion, Sample ID: 0
976 ppm, -184.5 mV
22.0 C ATC
- 6) 27-Sep-24 , 14:10:09
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.0 C ATC
- 7) 27-Sep-24 , 14:11:47
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC
- 8) 27-Sep-24 , 14:12:35
Mode-Ion, Sample ID: 0
973 ppm, -184.4 mV
22.1 C ATC
- 9) 27-Sep-24 , 14:14:56
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.0 C ATC
- 10) 27-Sep-24 , 14:16:53
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC
- 11) 27-Sep-24 , 14:18:44
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC
- 12) 27-Sep-24 , 14:20:50
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC

- 13) 27-Sep-24 , 14:22:14 *P58-454*
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.1 C ATC
- 14) 27-Sep-24 , 14:23:44
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.0 C ATC
- 15) 27-Sep-24 , 14:25:54
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 16) 27-Sep-24 , 14:26:43 *P58-464*
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.2 C ATC
- 17) 27-Sep-24 , 14:27:14
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.2 C ATC
- 18) 27-Sep-24 , 14:30:34
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.2 C ATC
- 19) 27-Sep-24 , 14:32:17 *P58-474*
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 20) 27-Sep-24 , 14:34:06
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.1 C ATC
- 21) 27-Sep-24 , 14:35:10
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 22) 27-Sep-24 , 14:36:08 *P58-484*
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 23) 27-Sep-24 , 14:37:21
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 24) 27-Sep-24 , 14:39:01
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.0 C ATC

Lm20240929

漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處：

P58-494

25) 27-Sep-24 , 14:40:31
Mode-Ion, Sample ID: 0
935 ppm, -183.4 mV
22.0 C ATC

26) 27-Sep-24 , 14:44:22
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.1 C ATC

27) 27-Sep-24 , 14:45:43
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC

P58-504
28) 27-Sep-24 , 14:47:07
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.1 C ATC

29) 27-Sep-24 , 14:48:20
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC

30) 27-Sep-24 , 14:49:55
Mode-Ion, Sample ID: 0
953 ppm, -183.9 mV
22.2 C ATC

P58-514
31) 27-Sep-24 , 14:51:18
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.2 C ATC

32) 27-Sep-24 , 14:52:26
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC

33) 27-Sep-24 , 14:53:54
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.1 C ATC

P58-524
34) 27-Sep-24 , 14:54:53
Mode-Ion, Sample ID: 0
942 ppm, -183.6 mV
22.1 C ATC

35) 27-Sep-24 , 14:55:54
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.1 C ATC

36) 27-Sep-24 , 14:56:59
Mode-Ion, Sample ID: 0
950 ppm, -183.8 mV
22.1 C ATC

Lin 20240927

P58-534

37) 27-Sep-24 , 14:58:16
Mode-Ion, Sample ID: 0
931 ppm, -183.3 mV
22.1 C ATC

38) 27-Sep-24 , 14:59:22
Mode-Ion, Sample ID: 0
942 ppm, -183.6 mV
22.1 C ATC

39) 27-Sep-24 , 15:00:21
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.1 C ATC

P58-544
40) 27-Sep-24 , 15:01:39
Mode-Ion, Sample ID: 0
935 ppm, -183.4 mV
22.1 C ATC

41) 27-Sep-24 , 15:03:34
Mode-Ion, Sample ID: 0
931 ppm, -183.3 mV
22.2 C ATC

42) 27-Sep-24 , 15:05:00
Mode-Ion, Sample ID: 0
950 ppm, -183.8 mV
22.1 C ATC

P58-554
43) 27-Sep-24 , 15:13:06
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.1 C ATC

44) 27-Sep-24 , 15:14:17
Mode-Ion, Sample ID: 0
942 ppm, -183.6 mV
22.1 C ATC

45) 27-Sep-24 , 15:15:18
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.2 C ATC

Lin 20240927

P58-564

46) 27-Sep-24 , 15:16:37
Mode-Ion, Sample ID: 0
935 ppm, -183.4 mV
22.2 C ATC

47) 27-Sep-24 , 15:17:21
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.1 C ATC

48) 27-Sep-24 , 15:19:23
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.2 C ATC

P58-574
49) 27-Sep-24 , 15:20:09
Mode-Ion, Sample ID: 0
924 ppm, -183.1 mV
22.2 C ATC

50) 27-Sep-24 , 15:21:39
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.2 C ATC

51) 27-Sep-24 , 15:22:35
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.2 C ATC

P58-584
52) 27-Sep-24 , 15:23:23
Mode-Ion, Sample ID: 0
950 ppm, -183.8 mV
22.1 C ATC

53) 27-Sep-24 , 15:25:05
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.2 C ATC

54) 27-Sep-24 , 15:27:17
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.2 C ATC

Lin 20240927

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:
27-Sep-24 , 13:20:38

Ion Values	Slope
10	-58.7 mV
100	-58.0 mV
1000	

Measurement Data

- 1) 27-Sep-24 , 13:29:38
Mode-Ion, Sample ID: 0
10.1 ppm, -68.6 mV
22.0 C ATC
- 2) 27-Sep-24 , 13:30:48
Mode-Ion, Sample ID: 0
102 ppm, -127.5 mV
21.9 C ATC
- 3) 27-Sep-24 , 13:33:35
Mode-Ion, Sample ID: 0
1000 ppm, -185.1 mV
21.9 C ATC

P58-424

- 4) 27-Sep-24 , 14:07:13
Mode-Ion, Sample ID: 0
980 ppm, -184.6 mV
22.0 C ATC
- 5) 27-Sep-24 , 14:08:42
Mode-Ion, Sample ID: 0
976 ppm, -184.5 mV
22.0 C ATC
- 6) 27-Sep-24 , 14:10:09
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.0 C ATC
- 7) 27-Sep-24 , 14:11:47
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC
- 8) 27-Sep-24 , 14:12:35
Mode-Ion, Sample ID: 0
973 ppm, -184.4 mV
22.1 C ATC
- 9) 27-Sep-24 , 14:14:56
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.0 C ATC
- 10) 27-Sep-24 , 14:16:53
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC
- 11) 27-Sep-24 , 14:18:44
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC
- 12) 27-Sep-24 , 14:20:50
Mode-Ion, Sample ID: 0
969 ppm, -184.3 mV
22.1 C ATC

- 13) 27-Sep-24 , 14:22:14 *P58-454*
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.1 C ATC
- 14) 27-Sep-24 , 14:23:44
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.0 C ATC
- 15) 27-Sep-24 , 14:25:54
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 16) 27-Sep-24 , 14:26:43 *P58-464*
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.2 C ATC
- 17) 27-Sep-24 , 14:27:14
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.2 C ATC
- 18) 27-Sep-24 , 14:30:34
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.2 C ATC
- 19) 27-Sep-24 , 14:32:17 *P58-474*
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 20) 27-Sep-24 , 14:34:06
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.1 C ATC
- 21) 27-Sep-24 , 14:35:10
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 22) 27-Sep-24 , 14:36:08 *P58-484*
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 23) 27-Sep-24 , 14:37:21
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC
- 24) 27-Sep-24 , 14:39:01
Mode-Ion, Sample ID: 0
961 ppm, -184.1 mV
22.0 C ATC

Lin 2024.9.27

漱口水之氟含量檢驗程序與紀錄

原始數據黏貼處:

P58-494

25) 27-Sep-24 , 14:40:31
Mode-Ion, Sample ID: 0
935 ppm, -183.4 mV
22.0 C ATC

26) 27-Sep-24 , 14:44:22
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.1 C ATC

27) 27-Sep-24 , 14:45:43
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC

P58-504
28) 27-Sep-24 , 14:47:07
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.1 C ATC

29) 27-Sep-24 , 14:48:20
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC

30) 27-Sep-24 , 14:49:55
Mode-Ion, Sample ID: 0
953 ppm, -183.9 mV
22.2 C ATC

P58-514
31) 27-Sep-24 , 14:51:18
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.2 C ATC

32) 27-Sep-24 , 14:52:26
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.1 C ATC

33) 27-Sep-24 , 14:53:54
Mode-Ion, Sample ID: 0
965 ppm, -184.2 mV
22.1 C ATC

P58-524
34) 27-Sep-24 , 14:54:53
Mode-Ion, Sample ID: 0
942 ppm, -183.6 mV
22.1 C ATC

35) 27-Sep-24 , 14:55:54
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.1 C ATC

36) 27-Sep-24 , 14:56:59
Mode-Ion, Sample ID: 0
950 ppm, -183.8 mV
22.1 C ATC

Lin 2024.09.27

P58-534

37) 27-Sep-24 , 14:58:16
Mode-Ion, Sample ID: 0
931 ppm, -183.3 mV
22.1 C ATC

38) 27-Sep-24 , 14:59:22
Mode-Ion, Sample ID: 0
942 ppm, -183.6 mV
22.1 C ATC

39) 27-Sep-24 , 15:00:21
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.1 C ATC

P58-544
40) 27-Sep-24 , 15:01:39
Mode-Ion, Sample ID: 0
935 ppm, -183.4 mV
22.1 C ATC

41) 27-Sep-24 , 15:03:34
Mode-Ion, Sample ID: 0
931 ppm, -183.3 mV
22.2 C ATC

42) 27-Sep-24 , 15:05:00
Mode-Ion, Sample ID: 0
950 ppm, -183.8 mV
22.1 C ATC

P58-554
43) 27-Sep-24 , 15:13:06
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.1 C ATC

44) 27-Sep-24 , 15:14:17
Mode-Ion, Sample ID: 0
942 ppm, -183.6 mV
22.1 C ATC

45) 27-Sep-24 , 15:15:18
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.2 C ATC

Lin 2024.09.27

P58-564

46) 27-Sep-24 , 15:16:37
Mode-Ion, Sample ID: 0
935 ppm, -183.4 mV
22.2 C ATC

47) 27-Sep-24 , 15:17:21
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.1 C ATC

48) 27-Sep-24 , 15:19:23
Mode-Ion, Sample ID: 0
957 ppm, -184.0 mV
22.2 C ATC

P58-574
49) 27-Sep-24 , 15:20:09
Mode-Ion, Sample ID: 0
924 ppm, -183.1 mV
22.2 C ATC

50) 27-Sep-24 , 15:21:39
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.2 C ATC

51) 27-Sep-24 , 15:22:35
Mode-Ion, Sample ID: 0
938 ppm, -183.5 mV
22.2 C ATC

P58-584
52) 27-Sep-24 , 15:23:23
Mode-Ion, Sample ID: 0
950 ppm, -183.8 mV
22.1 C ATC

53) 27-Sep-24 , 15:25:05
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.2 C ATC

54) 27-Sep-24 , 15:27:17
Mode-Ion, Sample ID: 0
946 ppm, -183.7 mV
22.2 C ATC

Lin 2024.09.27