

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
P58403	氟化鈉(NaF)規格應 介於 0.2%±10% 相當氟離子(F) 904ppm ± 10%	916	符合
P58413		884	符合
P58423		890	符合
P58433		905	符合
P58443		897	符合
P58453		895	符合
P58463		893	符合
P58473		890	符合
P58483		888	符合
P58493		901	符合
P58503		902	符合
P58513		895	符合
P58523		894	符合
P58533		898	符合
P58543		900	符合
P58553		888	符合
P58563		891	符合

Compiled By/Date: yihui Lee / 2023.10.17 Approved By/Date: Cindy deng / 2023.10.17



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)	2024. 12. 30

(4) 氟離子標準液測量結果

10ppm	100ppm	1000ppm
10.1	100	1000

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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 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)
P58403	919	916	912	916
P58413	883	883	887	884
P58423	891	887	891	890
P58433	909	905	901	905
P58443	898	894	898	897
P58453	894	898	894	895
P58463	894	891	894	893
P58473	887	891	891	890
P58483	887	887	891	888
P58493	898	905	901	901
P58503	905	901	901	902
P58513	898	894	894	895
P58523	891	898	894	894
P58533	901	898	894	898
P58543	898	905	898	900
P58553	887	891	887	888
P58563	891	894	887	891

以上檢品之產品氟化鈉(FNa)規格應介於 $0.2\% \pm 10\%$

相當氟離子(F) $904\text{ppm} \pm 10\%$

檢測者/日期：林素鈴
2023/01/16

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:

16-Oct-23 , 14:45:52

Ion Values Slope

10 -59.1 mV

100 -57.6 mV

1000

Measurement Data

1) 16-Oct-23 , 14:58:18
Mode-Ion, Sample ID: 0
10.1 ppm, -79.2 mV
20.6 C ATC

2) 16-Oct-23 , 15:01:12
Mode-Ion, Sample ID: 0
100 ppm, -138.1 mV
20.6 C ATC

3) 16-Oct-23 , 15:04:27
Mode-Ion, Sample ID: 0
1000 ppm, -195.6 mV
20.6 C ATC

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P58-403

4) 16-Oct-23 , 15:19:41
Mode-Ion, Sample ID: 0
919 ppm, -193.5 mV
20.6 C ATC

5) 16-Oct-23 , 15:21:36
Mode-Ion, Sample ID: 0
916 ppm, -193.4 mV
20.7 C ATC

6) 16-Oct-23 , 15:22:44
Mode-Ion, Sample ID: 0
912 ppm, -193.3 mV
20.7 C ATC

P58-413
7) 16-Oct-23 , 16:01:22
Mode-Ion, Sample ID: 0
883 ppm, -192.5 mV
20.5 C ATC

8) 16-Oct-23 , 16:04:07
Mode-Ion, Sample ID: 0
883 ppm, -192.5 mV
20.5 C ATC

9) 16-Oct-23 , 16:05:13
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.5 C ATC

P58-423
10) 16-Oct-23 , 16:06:38
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.5 C ATC

11) 16-Oct-23 , 16:07:57
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.5 C ATC

12) 16-Oct-23 , 16:09:29
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.4 C ATC

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P58-433

13) 16-Oct-23 , 16:12:55
Mode-Ion, Sample ID: 0
909 ppm, -193.2 mV
20.5 C ATC

14) 16-Oct-23 , 16:16:12
Mode-Ion, Sample ID: 0
905 ppm, -193.1 mV
20.6 C ATC

15) 16-Oct-23 , 16:18:33
Mode-Ion, Sample ID: 0
901 ppm, -193.0 mV
20.6 C ATC

P58-443
16) 16-Oct-23 , 16:20:01
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.5 C ATC

17) 16-Oct-23 , 16:21:35
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.5 C ATC

18) 16-Oct-23 , 16:22:57
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.5 C ATC

P58-453
19) 16-Oct-23 , 16:26:00
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.6 C ATC

20) 16-Oct-23 , 16:27:12
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.5 C ATC

21) 16-Oct-23 , 16:29:26
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.5 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:

P58-463

22) 16-Oct-23, 16:32:00
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.5 C ATC

23) 16-Oct-23, 16:33:47
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.5 C ATC

24) 16-Oct-23, 16:36:08
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.5 C ATC

P58-473

25) 16-Oct-23, 16:37:37
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.5 C ATC

26) 16-Oct-23, 16:39:54
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.6 C ATC

27) 16-Oct-23, 16:41:44
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.5 C ATC

P58-483

28) 16-Oct-23, 16:43:00
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.5 C ATC

29) 16-Oct-23, 16:44:32
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.5 C ATC

30) 16-Oct-23, 16:45:25
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.5 C ATC

P58-493

31) 16-Oct-23, 16:47:01
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.6 C ATC

32) 16-Oct-23, 16:48:19
Mode-Ion, Sample ID: 0
905 ppm, -193.1 mV
20.6 C ATC

33) 16-Oct-23, 16:50:02
Mode-Ion, Sample ID: 0
901 ppm, -193.0 mV
20.6 C ATC

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P58-503

34) 16-Oct-23, 16:52:36
Mode-Ion, Sample ID: 0
905 ppm, -193.1 mV
20.6 C ATC

35) 16-Oct-23, 16:55:17
Mode-Ion, Sample ID: 0
901 ppm, -193.0 mV
20.7 C ATC

36) 16-Oct-23, 16:58:38
Mode-Ion, Sample ID: 0
901 ppm, -193.0 mV
20.7 C ATC

P58-513

37) 16-Oct-23, 17:00:35
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.7 C ATC

38) 16-Oct-23, 17:01:46
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.6 C ATC

39) 16-Oct-23, 17:03:36
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.7 C ATC

P58-523

40) 16-Oct-23, 17:05:01
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.7 C ATC

41) 16-Oct-23, 17:06:25
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.7 C ATC

42) 16-Oct-23, 17:08:13
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.7 C ATC

P58-533

43) 16-Oct-23, 17:09:15
Mode-Ion, Sample ID: 0
901 ppm, -193.0 mV
20.7 C ATC

44) 16-Oct-23, 17:10:43
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.7 C ATC

45) 16-Oct-23, 17:12:53
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.7 C ATC

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P58-543

46) 16-Oct-23, 17:14:29
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.6 C ATC

47) 16-Oct-23, 17:16:08
Mode-Ion, Sample ID: 0
905 ppm, -193.1 mV
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48) 16-Oct-23, 17:18:12
Mode-Ion, Sample ID: 0
898 ppm, -192.9 mV
20.5 C ATC

P58-553

49) 16-Oct-23, 17:21:57
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.5 C ATC

50) 16-Oct-23, 17:23:52
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.5 C ATC

51) 16-Oct-23, 17:26:42
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.5 C ATC

P58-563

52) 16-Oct-23, 17:28:12
Mode-Ion, Sample ID: 0
891 ppm, -192.7 mV
20.5 C ATC

53) 16-Oct-23, 17:30:46
Mode-Ion, Sample ID: 0
894 ppm, -192.8 mV
20.6 C ATC

54) 16-Oct-23, 17:32:22
Mode-Ion, Sample ID: 0
887 ppm, -192.6 mV
20.6 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:

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:
16-Oct-23 , 14:45:52

Ion Values	Slope
10	-59.1 mV
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Measurement Data

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PSF-403

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