

|                                |            |                              |             |
|--------------------------------|------------|------------------------------|-------------|
| pharmaxis                      | RPP-004-05 | Date Effective:<br>09-Nov-21 | Page 1 of 4 |
| 2ppm NITRATE STANDARD SOLUTION |            |                              |             |

|                | Name        | Position      | Signature     | Date      |
|----------------|-------------|---------------|---------------|-----------|
| Author:        | N.V-Nedinic | QC Analyst    | Natalija V.N. | 19 Oct 21 |
| Checked by:    | L. Sze      | QC Analyst    | L. Sze        | 20 Oct 21 |
| Authorised by: | D. Ainslie  | QC Supervisor | D. Ainslie    | 20 Oct 21 |

RP No. \_\_\_\_\_ Analyst: \_\_\_\_\_ Date of Preparation: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

## 1 REAGENTS

| Reagent             | Manufacturer          | Batch No., RP No. or Date Dispensed | Expiry Date |
|---------------------|-----------------------|-------------------------------------|-------------|
| Potassium Nitrate   |                       |                                     |             |
| Water for Injection |                       |                                     |             |
| Milli-Q Water       | Date Dispensed: _____ |                                     |             |

## 2 EQUIPMENT DETAILS

| Equipment                    | Tag No. | Calibration Due Date |
|------------------------------|---------|----------------------|
| Balance                      |         |                      |
| Temperature & Humidity Meter |         |                      |
| Milli-Q Water System         |         |                      |

## 3 SAFETY

3.1 Ensure appropriate PPE is worn when handling Potassium Nitrate and Nitrate Standard Solutions.

3.2 Avoid generating dust when handling Potassium Nitrate.

|                                                                                                                                                                                                         |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Reference: TM-041                                                                                                                                                                                       | TE-031-05 |
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**2ppm NITRATE STANDARD SOLUTION****4 PROCEDURE****4.1 Preparation of 100ppm Nitrate Standard Solution**

Temperature (°C): \_\_\_\_\_ Relative Humidity (%RH): \_\_\_\_\_

|       | Instruction                                                                                                                                                                                                                                          | Performed By<br>(Initials & Date) |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 4.1.1 | Place a clean weighing boat on the balance and tare. Weigh accurately 0.815g of potassium nitrate. Tare again.                                                                                                                                       |                                   |
| 4.1.2 | Transfer the potassium nitrate to a clean and dry 500.0mL volumetric flask. Replace the weighing boat on the balance and record the negative weight _____ g. (Attach printout to this form)<br><br>Volumetric Flask ID: _____ Calibration Due: _____ |                                   |
| 4.1.3 | Add about 250mL of water to the volumetric flask and swirl until the potassium nitrate has completely dissolved. Make up to the mark with water and mix thoroughly.                                                                                  |                                   |
| 4.1.4 | Label as 100ppm Nitrate Standard Solution in accordance with the current version of SOP-087. Expiry of 100ppm Solution: _____                                                                                                                        |                                   |

**4.2 Preparation of 10ppm Nitrate Standard Solution**

100ppm Nitrate Standard Solution prepared previously: Yes / No (Please Circle)

If Yes refer to RP number: **RP**\_\_\_\_\_ **Expiry Date:** \_\_\_\_\_

Temperature (°C): \_\_\_\_\_ Relative Humidity (%RH): \_\_\_\_\_

|       | Instruction                                                                                                                                                                                | Performed By<br>(Initials & Date) |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 4.2.1 | Carefully pipette 10.0mL of 100ppm nitrate standard solution in a 100.0mL volumetric flask and dilute with water. Mix thoroughly.<br><br>Volumetric Flask ID: _____ Calibration Due: _____ |                                   |
| 4.2.2 | Label as 10ppm Nitrate Standard Solution in accordance with the current version of SOP-087.                                                                                                |                                   |

|                                       |                   |                                            |                    |
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| <b>2ppm NITRATE STANDARD SOLUTION</b> |                   |                                            |                    |

### 4.3 Preparation of 2ppm Nitrate Standard Solution

Temperature (°C): \_\_\_\_\_ Relative Humidity (%RH): \_\_\_\_\_

|       | <b>Instruction</b>                                                                                                                                                                        | <b>Performed By</b><br>(Initials & Date) |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 4.3.1 | Carefully pipette 20.0mL of 10ppm nitrate standard solution in a 100.0mL volumetric flask and dilute with water. Mix thoroughly.<br><br>Volumetric Flask ID: _____ Calibration Due: _____ |                                          |
| 4.3.2 | Label as 2ppm Nitrate Standard Solution in accordance with the current version of SOP-087.                                                                                                |                                          |

*Attach weigh slip here*

/

*Weigh slip not required*  
(Circle if no weigh slip required)

## 5 EXPIRY

### Expiry of 100ppm Nitrate Standard Solution

100ppm Nitrate Standard Solution has 14 days stability.

### Expiry of 10ppm Nitrate Standard Solution

10ppm Nitrate Standard Solution is to be prepared immediately before use.

### Expiry of 2ppm Nitrate Standard Solution

2ppm Nitrate Standard Solution is to be prepared immediately before use.

|                                                                                                                                                                                                         |           |
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| <b>2ppm NITRATE STANDARD SOLUTION</b>                                             |                   |                                      |                    |

## 6 STORAGE

### Storage of 100ppm Nitrate Standard Solution

The 100ppm nitrate standard solution can be stored in a sealed volumetric flask at room temperature and labelled as per SOP-087.

## 7 DISPOSAL

Unused Nitrate Standard Solutions are to be disposed of in an Aqueous Laboratory Waste Container.

|                                                                                                                                                                                                         |           |
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