

## Recepten gebreksoplossingen

Gebruiksaanwijzing: 1 maak de benodigde stock-oplossingen van 0,5 of 1M. 2 bereid de 2x-oplossingen. 3 verdun de 2x-oplossingen tot de voedingsoplossingen

| <b>Compleet</b> |                                     | <b>2x-oplossing</b> |         |                |                   |
|-----------------|-------------------------------------|---------------------|---------|----------------|-------------------|
| Aantal Molair   | Stof                                | 18 liter            | 6 liter | Molair gewicht | Aantal gram/liter |
|                 | 1 Ca(NO <sub>3</sub> ) <sub>2</sub> | 180                 | 60      | 164            |                   |
|                 | 1 KNO <sub>3</sub>                  | 180                 | 60      | 101.1          |                   |
|                 | 1 MgSO <sub>4</sub>                 | 72                  | 24      | 120.4          |                   |
|                 | 0.5 KH <sub>2</sub> PO <sub>4</sub> | 72                  | 24      | 136            |                   |
|                 | Micro                               | 36                  | 12      |                |                   |
|                 | SeqFe                               | 72                  | 24      |                |                   |

\*Dit zijn aantallen ml van 1 of 0,5M oplossing

| <b>-N</b>     |                                     | <b>2x-oplossing</b> |         |                |                   |
|---------------|-------------------------------------|---------------------|---------|----------------|-------------------|
| Aantal Molair | Stof                                | 18 liter            | 6 liter | Molair gewicht | Aantal gram/liter |
|               | 0.5 CaCl <sub>2</sub>               | 360                 | 120     | 75.5           |                   |
|               | 0.5 K <sub>2</sub> SO <sub>4</sub>  | 180                 | 60      | 174 ok         |                   |
|               | 1 MgSO <sub>4</sub>                 | 72                  | 24      |                |                   |
|               | 0.5 KH <sub>2</sub> PO <sub>4</sub> | 72                  | 24      |                |                   |
|               | Micro                               | 36                  | 12      |                |                   |
|               | SeqFe                               | 72                  | 24      |                |                   |

\*Dit zijn aantallen ml van 1 of 0,5M oplossing

| <b>-K</b>     |                                     | <b>2x-oplossing</b> |         |                |                   |
|---------------|-------------------------------------|---------------------|---------|----------------|-------------------|
| Aantal Molair | Stof                                | 18 liter            | 6 liter | Molair gewicht | Aantal gram/liter |
|               | 1 Ca(NO <sub>3</sub> ) <sub>2</sub> | 180                 | 60      |                |                   |
|               | 1 NaNO <sub>3</sub>                 | 180                 | 60      | 85             |                   |
|               | 1 MgSO <sub>4</sub>                 | 72                  | 24      |                |                   |
|               | 1 NaH <sub>2</sub> PO <sub>4</sub>  | 36                  | 12      | 120            |                   |
|               | Micro                               | 36                  | 12      |                |                   |
|               | SeqFe                               | 72                  | 24      |                |                   |

\*Dit zijn aantallen ml van 1 of 0,5M oplossing

| <b>-P</b>     |                                     | <b>2x-oplossing</b> |         |                |                   |
|---------------|-------------------------------------|---------------------|---------|----------------|-------------------|
| Aantal Molair | Stof                                | 18 liter            | 6 liter | Molair gewicht | Aantal gram/liter |
|               | 1 Ca(NO <sub>3</sub> ) <sub>2</sub> | 180                 | 60      |                |                   |
|               | 1 KNO <sub>3</sub>                  | 180                 | 60      |                |                   |
|               | 1 MgSO <sub>4</sub>                 | 72                  | 24      |                |                   |
|               | 0.5 KCl                             | 36                  | 12      | 74.5           |                   |
|               | Micro                               | 36                  | 12      |                |                   |
|               | SeqFe                               | 72                  | 24      |                |                   |

\*Dit zijn aantallen ml van 1 of 0,5M oplossing

**-Mg****2x-oplossing**

| Aantal Molair | Stof                              | 18 liter | 6 liter | Molair gewicht | Aantal gram/liter |
|---------------|-----------------------------------|----------|---------|----------------|-------------------|
| 1             | Ca(NO <sub>3</sub> ) <sub>2</sub> | 180      | 60      |                |                   |
| 1             | KNO <sub>3</sub>                  | 180      | 60      |                |                   |
| 0.5           | NaSO <sub>4</sub>                 | 144      | 48      | 119            |                   |
| 0.5           | KH <sub>2</sub> PO <sub>4</sub>   | 72       | 24      |                |                   |
|               | Micro                             | 36       | 12      |                |                   |
|               | SeqFe                             | 72       | 24      |                |                   |

\*Dit zijn aantallen ml van 1 of 0,5M oplossing

**-Fe****2x-oplossing**

| Aantal Molair | Stof                              | 18 liter | 6 liter | Molair gewicht | Aantal gram/liter |
|---------------|-----------------------------------|----------|---------|----------------|-------------------|
| 1             | Ca(NO <sub>3</sub> ) <sub>2</sub> | 180      | 60      |                |                   |
| 1             | KNO <sub>3</sub>                  | 180      | 60      |                |                   |
| 1             | MgSO <sub>4</sub>                 | 72       | 24      |                |                   |
| 0.5           | KH <sub>2</sub> PO <sub>4</sub>   | 72       | 24      |                |                   |
|               | Micro                             | 36       | 12      |                |                   |

\*Dit zijn aantallen ml van 1 of 0,5M oplossing

| Exoten:                          | Mol. Gewicht | kg  |
|----------------------------------|--------------|-----|
| CaCl <sub>2</sub>                | 75.5         | 1   |
| NaNO <sub>3</sub>                | 85           | 1   |
| NaH <sub>2</sub> PO <sub>4</sub> | 120          | 1   |
| KCl                              | 74.5         | 0.5 |
| NaSO <sub>4</sub>                | 119          | 1   |