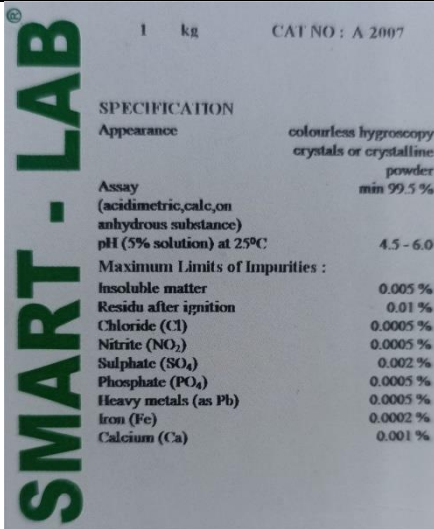
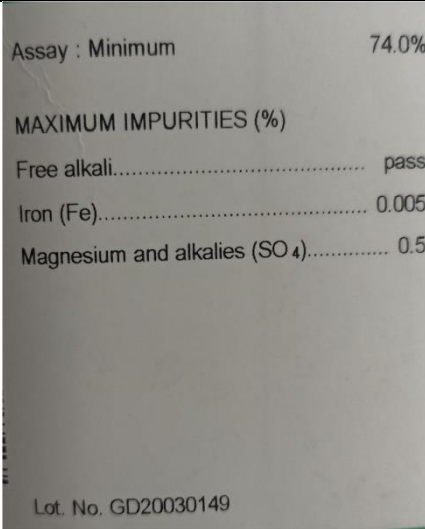
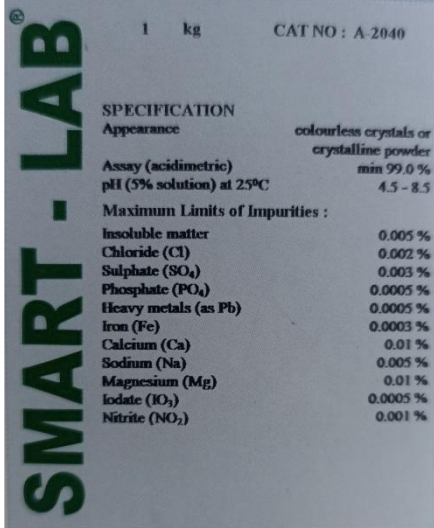
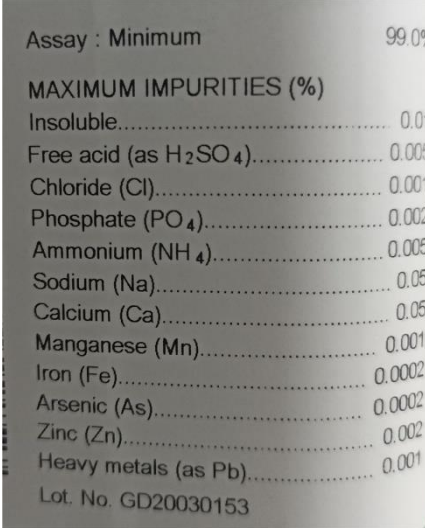


Supplementary Appendix 1

Technical-grade macronutrient chemical reagent specification labels

Chemical name	Specification label	Chemical name	Specification label
NH ₄ NO ₃		CaCl ₂	
KNO ₃		MgSO ₄	
KH ₂ PO ₄	None		

Supplementary Appendix 2

Analytical-grade macronutrient chemical reagent CoA

Chemical name	Specification label	Chemical name	Specification label																																																																																																																					
NH₄NO₃	<p>Certificate of Analysis</p> <p>1.01188.1000 Ammonium nitrate for analysis EMSURE® ACS Batch AM1234488</p> <table border="1"> <thead> <tr> <th></th> <th>Spec. Values</th> <th>Batch Values</th> </tr> </thead> <tbody> <tr> <td>Assay (alkalimetric)</td> <td>≥ 95.0 %</td> <td>99.8 %</td> </tr> <tr> <td>Insoluble matter</td> <td>≤ 0.005 %</td> <td>≤ 0.005 %</td> </tr> <tr> <td>pH-value (5 %; water, 25 °C)</td> <td>4.5 - 6.0</td> <td>4.9</td> </tr> <tr> <td>Chloride (Cl)</td> <td>≤ 0.0003 %</td> <td>≤ 0.0003 %</td> </tr> <tr> <td>Nitrite (NO₂)</td> <td>≤ 0.0005 %</td> <td>≤ 0.0005 %</td> </tr> <tr> <td>Nitrate (NO₃)</td> <td>passes test</td> <td>passes test</td> </tr> <tr> <td>Phosphate (PO₄)</td> <td>≤ 0.0005 %</td> <td>≤ 0.0005 %</td> </tr> <tr> <td>Sulfate (SO₄)</td> <td>≤ 0.002 %</td> <td>≤ 0.002 %</td> </tr> <tr> <td>Heavy metals (as Pb)</td> <td>≤ 0.0005 %</td> <td>≤ 0.0005 %</td> </tr> <tr> <td>Ca (Calcium)</td> <td>≤ 0.003 %</td> <td>≤ 0.003 %</td> </tr> <tr> <td>Fe (Iron)</td> <td>≤ 0.0002 %</td> <td>≤ 0.0002 %</td> </tr> <tr> <td>Residue on ignition (as sulfate)</td> <td>≤ 0.01 %</td> <td>< 0.01 %</td> </tr> </tbody> </table> <p>The following parameter from a double TOC determination of one batch: Combustible matter, including organic components (as carbon) ≤ 0.2 % (meets the specified value) In accordance with class 5.1 UN 1942.</p>		Spec. Values	Batch Values	Assay (alkalimetric)	≥ 95.0 %	99.8 %	Insoluble matter	≤ 0.005 %	≤ 0.005 %	pH-value (5 %; water, 25 °C)	4.5 - 6.0	4.9	Chloride (Cl)	≤ 0.0003 %	≤ 0.0003 %	Nitrite (NO ₂)	≤ 0.0005 %	≤ 0.0005 %	Nitrate (NO ₃)	passes test	passes test	Phosphate (PO ₄)	≤ 0.0005 %	≤ 0.0005 %	Sulfate (SO ₄)	≤ 0.002 %	≤ 0.002 %	Heavy metals (as Pb)	≤ 0.0005 %	≤ 0.0005 %	Ca (Calcium)	≤ 0.003 %	≤ 0.003 %	Fe (Iron)	≤ 0.0002 %	≤ 0.0002 %	Residue on ignition (as sulfate)	≤ 0.01 %	< 0.01 %	CaCl₂	<p>Certificate of Analysis</p> <p>1.02382.1000 Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur Batch A1396782</p> <table border="1"> <thead> <tr> <th></th> <th>Spec. Values</th> <th>Batch Values</th> </tr> </thead> <tbody> <tr> <td>Assay (complexometric)</td> <td>99.0 - 102.0 %</td> <td>100.8 %</td> </tr> <tr> <td>Identity</td> <td>passes test</td> <td>passes test</td> </tr> <tr> <td>Appearance of solution</td> <td>passes test</td> <td>passes test</td> </tr> <tr> <td>Insoluble matter</td> <td>≤ 0.01 %</td> <td>≤ 0.01 %</td> </tr> <tr> <td>Acidity or alkalinity</td> <td>passes test</td> <td>passes test</td> </tr> <tr> <td>pH-value (5 %; water, 25 °C)</td> <td>4.5 - 8.5</td> <td>5.5</td> </tr> <tr> <td>Sulfate (SO₄)</td> <td>≤ 0.005 %</td> <td>≤ 0.005 %</td> </tr> <tr> <td>Heavy metals (as Pb)</td> <td>≤ 0.0005 %</td> <td>≤ 0.0005 %</td> </tr> <tr> <td>Al (Aluminium)</td> <td>≤ 0.0001 %</td> <td>≤ 0.0001 %</td> </tr> <tr> <td>Ba (Barium)</td> <td>≤ 0.003 %</td> <td>≤ 0.003 %</td> </tr> <tr> <td>Ba (Barium)</td> <td>passes test</td> <td>passes test</td> </tr> <tr> <td>Cu (Copper)</td> <td>≤ 0.0005 %</td> <td>≤ 0.0005 %</td> </tr> <tr> <td>Fe (Iron)</td> <td>≤ 0.0003 %</td> <td>≤ 0.0003 %</td> </tr> <tr> <td>K (Potassium)</td> <td>≤ 0.01 %</td> <td>≤ 0.01 %</td> </tr> <tr> <td>Mg (Magnesium)</td> <td>≤ 0.005 %</td> <td>≤ 0.005 %</td> </tr> <tr> <td>Na (Sodium)</td> <td>≤ 0.01 %</td> <td>≤ 0.01 %</td> </tr> <tr> <td>NH₄ (Ammonium)</td> <td>≤ 0.005 %</td> <td>≤ 0.005 %</td> </tr> <tr> <td>Sr (Strontium)</td> <td>≤ 0.05 %</td> <td>≤ 0.05 %</td> </tr> <tr> <td>Magnesium and alkali metals</td> <td>≤ 0.5 %</td> <td>≤ 0.5 %</td> </tr> <tr> <td>Oxidizing substances (as NO₂)</td> <td>≤ 0.003 %</td> <td>≤ 0.003 %</td> </tr> </tbody> </table> <p>Corresponds to ACS, Reag. Ph Eur</p>		Spec. Values	Batch Values	Assay (complexometric)	99.0 - 102.0 %	100.8 %	Identity	passes test	passes test	Appearance of solution	passes test	passes test	Insoluble matter	≤ 0.01 %	≤ 0.01 %	Acidity or alkalinity	passes test	passes test	pH-value (5 %; water, 25 °C)	4.5 - 8.5	5.5	Sulfate (SO ₄)	≤ 0.005 %	≤ 0.005 %	Heavy metals (as Pb)	≤ 0.0005 %	≤ 0.0005 %	Al (Aluminium)	≤ 0.0001 %	≤ 0.0001 %	Ba (Barium)	≤ 0.003 %	≤ 0.003 %	Ba (Barium)	passes test	passes test	Cu (Copper)	≤ 0.0005 %	≤ 0.0005 %	Fe (Iron)	≤ 0.0003 %	≤ 0.0003 %	K (Potassium)	≤ 0.01 %	≤ 0.01 %	Mg (Magnesium)	≤ 0.005 %	≤ 0.005 %	Na (Sodium)	≤ 0.01 %	≤ 0.01 %	NH ₄ (Ammonium)	≤ 0.005 %	≤ 0.005 %	Sr (Strontium)	≤ 0.05 %	≤ 0.05 %	Magnesium and alkali metals	≤ 0.5 %	≤ 0.5 %	Oxidizing substances (as NO ₂)	≤ 0.003 %	≤ 0.003 %															
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KH₂PO₄	<p>Certificate of Analysis</p> <p>1.04873.1000 Potassium dihydrogen phosphate for analysis EMSURE® ISO Batch AM1206773</p> <table border="1"> <thead> <tr> <th></th> <th>Spec. Values</th> <th>Batch Values</th> </tr> </thead> <tbody> <tr> <td>Assay (alkalimetric, calculated on dried substance)</td> <td>99.5 - 100.5 %</td> <td>100.0 %</td> </tr> <tr> <td>Assay (alkalimetric; dried substance)</td> <td>≥ 99.5 %</td> <td>99.9 %</td> </tr> <tr> <td>pH-value (5 %; water)</td> <td>4.2 - 4.5</td> <td>4.3</td> </tr> <tr> <td>Chloride (Cl)</td> <td>≤ 0.0005 %</td> <td>≤ 0.0005 %</td> </tr> <tr> <td>Sulphate (SO₄)</td> <td>≤ 0.003 %</td> <td>≤ 0.003 %</td> </tr> <tr> <td>Total nitrogen (N)</td> <td>≤ 0.001 %</td> <td>≤ 0.001 %</td> </tr> <tr> <td>Heavy metals (as Pb)</td> <td>≤ 0.0010 %</td> <td>≤ 0.0010 %</td> </tr> <tr> <td>As (Arsenic)</td> <td>≤ 0.0002 %</td> <td>≤ 0.0002 %</td> </tr> <tr> <td>Cu (Copper)</td> <td>≤ 0.0003 %</td> <td>≤ 0.0003 %</td> </tr> <tr> <td>Fe (Iron)</td> <td>≤ 0.0010 %</td> <td>≤ 0.0010 %</td> </tr> <tr> <td>Na (Sodium)</td> <td>≤ 0.02 %</td> <td>≤ 0.02 %</td> </tr> <tr> <td>Pb (Lead)</td> <td>≤ 0.001 %</td> <td>≤ 0.001 %</td> </tr> <tr> <td>Reducing substances</td> <td>passes test</td> <td>passes test</td> </tr> <tr> <td>Loss on drying (110 °C)</td> <td>≤ 0.2 %</td> <td>< 0.1 %</td> </tr> <tr> <td>Loss on drying (130 °C)</td> <td>≤ 0.2 %</td> <td>< 0.2 %</td> </tr> </tbody> </table> <p>Corresponds to ISO</p>		Spec. Values	Batch Values	Assay (alkalimetric, calculated on dried substance)	99.5 - 100.5 %	100.0 %	Assay (alkalimetric; dried substance)	≥ 99.5 %	99.9 %	pH-value (5 %; water)	4.2 - 4.5	4.3	Chloride (Cl)	≤ 0.0005 %	≤ 0.0005 %	Sulphate (SO ₄)	≤ 0.003 %	≤ 0.003 %	Total nitrogen (N)	≤ 0.001 %	≤ 0.001 %	Heavy metals (as Pb)	≤ 0.0010 %	≤ 0.0010 %	As (Arsenic)	≤ 0.0002 %	≤ 0.0002 %	Cu (Copper)	≤ 0.0003 %	≤ 0.0003 %	Fe (Iron)	≤ 0.0010 %	≤ 0.0010 %	Na (Sodium)	≤ 0.02 %	≤ 0.02 %	Pb (Lead)	≤ 0.001 %	≤ 0.001 %	Reducing substances	passes test	passes test	Loss on drying (110 °C)	≤ 0.2 %	< 0.1 %	Loss on drying (130 °C)	≤ 0.2 %	< 0.2 %																																																																							
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