FPR TOOL

USER GUIDE

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SUMMARY

FIGURES

APPENDIXES

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

LIST OF ABBREVIATIONS

BBF: Bio-based Fertiliser

CMC: Component Material Category

FPR: Fertilizing Products Regulation

PFC: Product Function Categories

TMF: Tailor-made Fertiliser

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1. INTRODUCTION

The FPR tool was created to help users to verify fertilising product concordance with the RCE 2019/1009 implemented during the FERTIMANURE project's lifetime (https://eur-lex.europa.eu/eli/reg/2019/1009/oj).

This Regulation replaced the Regulation (EC) No 2003/2003, expanding its scope to secondary raw material based, i.e. recovered and bio-based fertilising products. The new EU Fertilising Products Regulation (EU) 2019/1009 was approved by the European Parliament and the Council of the European Union on 5th June 2019 and is in application since 16th June 2022.

According to this new regulation, to be authorized, a product must be 1) made of authorized components (CMC), and 2) meet the regulatory requirements defined according to the functionality of the product (PFC).

The tool was designed to study these two aspects of the regulation: at first, BBFs are compared to CMCs requirements, then, the final products (constituted with one BBF or in mixture) are compared to the PFC requirements.

Figure 1: FPR tool homepage

The tool was created on Excel. When it is empty it only contains 2 sheets:

i. **A home page** (Figure 1) containing 2 buttons: one to create new CMC (a new sheet per CMC), and another to access to the second sheet:
ii. **The PFC conformity sheet**, which is used to check the compliance of the different crated CMCs according to regulatory requirements

At the end, the tool will be filled with as many pages as CMC and 2 tabs for the home page and the PFCs.

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2. CMCs CREATION AND VALIDATION

The tool was designed to manage the constitutive materials separately one from each other. Each creation of a new material results in the creation of a new tab in which component analytical data must be indicated.

When you click on "CMC", the tool asks for a BBF name (Figure 2). Any character string is possible, but do not forget that this name will serve in a second time as a reference in the tool to recall the material in the PFC checking part.

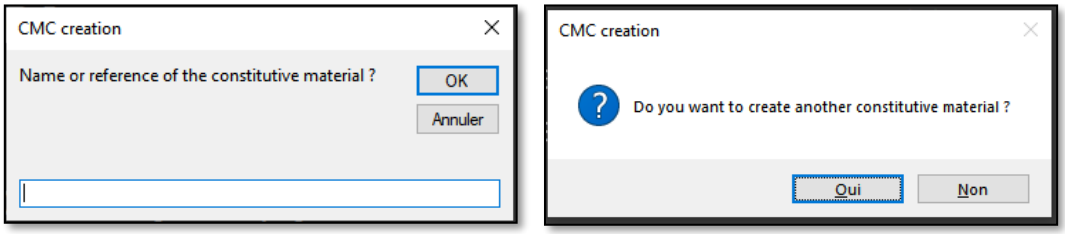

Figure 2: FRP tool CMCs creation step

After entering the name, the tool asks if it is necessary to create another constitutive material. This function allows you to create several materials very quickly.

Each CMC creation generates a sheet dedicated to this CMC. When the CMC creation is finished, each sheet must be completed with data on each of the materials. For each CMC, the regulations define lists of authorized (or prohibited) materials, and analytical criteria to be respected.

The possible CMC are:

- CMC 1: Virgin material substances and mixtures
- CMC 2: Plants, plant parts or plant extracts
- CMC 3: Compost
- CMC 4: Fresh crop digestate
- CMC 5: Digestate other than fresh crop digestate
- CMC 6: Food industry by-products
- CMC 7: Micro-organisms
- CMC 8: Nutrient polymers
- CMC 9: Polymers other than nutrient polymers
- CMC 10: Derived products within the meaning of Regulation (EC) No 1069/2009
- CMC 11: By-products within the meaning of Directive 2008/98/EC
- CMC 12: Precipitated phosphate salts and derivates
- CMC 13: Thermal oxidation materials and derivates
- CMC 14: Pyrolysis and gasification materials
- CMC 15: Recovered high purity materials

The regulatory requirements depend on the CMC concerned. The complete checking list for each CMC is shown in Appendix 1.

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While filling a sheet, the tool automatically checks that the material created complies with regulatory requirements. When a compliance is found, the sheet bookmark turns yellow to blue (Figure 3).

Figure 3: Valid CMC detected

The valid CMC can be identified with hiding the wrong CMCs by clicking on the orange "Hide wrong CMC" button (Figure 4).

Figure 4: Hide/Show CMC buttons

If no CMC emerges, it is possible to scroll down the list of CMCs by clicking on the green "Show all CMC" button and investigate why the material is not compatible with potentially interesting CMCs (by comparing the list of authorized materials, checking that all the necessary criteria have been correctly fulfilled and that the values are well within the authorized limits).

To check why a material is compliant or not with one CMC, the number of criteria to be fulfilled is indicated at the top of the "parameters" section as a ratio "number of parameters fulfilled" / "number of parameters necessary". If the numbers are not equal, there are missing parameters which may explain why the CMC is invalid. Missing parameters are marked "ND" (not determined). If a criterion is not good, then it is indicated "False". Conversely, a criterion respecting the regulations is indicated "True"

Please note that the tool is based on user good use and faith. The tool does not verify the correspondence between the constituent materials and other in actual regulations (Regulation (EC) N°1907/2006, 2006).

Once the CMC creation and validation step is complete, you can move on to the product modelling step and validate its suitability for the PFC requirements.

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3. FINAL PRODUCT CREATION AND PFC VALIDATION

In this step, the operation of the tool is similar to the CMCs part: the tool compares the entered data with regulatory requirements and informs the user about valid and invalid PFCs.

In "PFC CONFORMITY" sheet, constitutive materials can be created by clicking on button "CMC+".

In the new column that is created, named by default "[CMC_name]"

You can rename each CMC separately by changing this sentence. If you put the name of a CMC that had previously been created (and validated by the tool) then the CMC number is displayed below the name. Otherwise, you must indicate the CMC of the material manually.

In "Proportion" row, you must specify the part that the constituent material represents in the final product (as a percentage of final mass). You can create a final product consisting of a single CMC (100% of this CMC), or a combination of multiple CMCs.

Note that the tool is not able to verify the physical feasibility of the mixture.

Then, for each CMC included in the composition of the product, indicate the possible functions of CMC, the analysis results (elements, pollutants, pathogens, or even some specific analyses linked to categories of PFCs). The possible PFC are:

- PFC 1: Fertiliser
  - 1A: Organic fertiliser
    - 1AI: Solid organic fertiliser
      - 1AI(a): Solid organic N or P or K fertiliser
      - 1AI(b): Solid organic NP or NK or PK or NPK fertiliser
    - 1AII: Liquid organic fertiliser
      - 1AII(a): Liquid organic N or P or K fertiliser
      - 1AII(b): Liquid organic NP or NK or PK or NPK fertiliser
  - 1B: Organo-mineral fertiliser
    - 1BI: Solid organo-mineral fertiliser
      - 1BI(a): Solid organo-mineral N or P or K fertiliser
      - 1BI(b): Solid organo-mineral NP or NK or PK or NPK fertiliser
    - 1BII: Liquid organo-mineral fertiliser
      - 1BII(a): Liquid organo-mineral N or P or K fertiliser
      - 1BII(b): Liquid organo-mineral NP or NK or PK or NPK fertiliser
  - 1C: Inorganic fertiliser
    - 1CI: Inorganic macronutrient fertiliser
      - 1CIa :Solid inorganic macronutrient fertiliser
        - 1CIai: Straight solid inorganic macronutrient fertiliser

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- 1CIai(a): Straight solid inorganic N or P or K or Mg or Ca or S or Na fertiliser
- 1CIai(b): Straight solid inorganic N or P or K + (Mg/Ca/S/Na) fertiliser

▪ 1CIaii: Compound solid inorganic macronutrient fertiliser

- 1CIaii(a): Straight solid inorganic NP or NK or PK or NPK fertiliser
- 1CIaii(b): Straight solid inorganic (Mg/Ca/S/Na) fertiliser

o 1CIb :Liquid inorganic macronutrient fertiliser

▪ 1CIbi: Straight liquid inorganic macronutrient fertiliser

- 1CIbi(a): Straight liquid inorganic N or P or K or Mg or Ca or S or Na fertiliser
- 1CIbi(b): Straight liquid inorganic N or P or K + (Mg/Ca/S/Na) fertiliser

▪ 1CIbii: Compound liquid inorganic macronutrient fertiliser

- 1CIbii(a): Straight liquid inorganic NP or NK or PK or NPK fertiliser
- 1CIbii(b): Straight liquid inorganic (Mg/Ca/S/Na) fertiliser

- 1CII: Inorganic micronutrient fertiliser
  - 1CIIa: Inorganic straight micronutrient fertiliser
    - 1CIIai: B or Co or Cu or Fe or Mn or Mo or Zn solid fertiliser
    - 1CIIaii: B or Co or Cu or Fe or Mn or Mo or Zn solid fertiliser
    - 1CIIaiii: B or Co or Cu or Fe or Mn or Mo or Zn solution/suspension fertiliser
    - 1CIIaiv: B or Co or Cu or Fe or Mn or Mo or Zn chelated fertiliser
    - 1CIIav: B or Co or Cu or Fe or Mn or Mo or Zn complexed fertiliser
  - 1CIIb: Inorganic compound micronutrient fertiliser
    - 1CIIbi: B/Co/Cu/Fe/Mn/Mo/Zn solid fertiliser
    - 1CIIbii: B/Co/Cu/Fe/Mn/Mo/Zn liquid fertiliser

- PFC 2: Liming material
- PFC 3: Soil improver
  - 3A: Organic soil improver
  - 3B: Inorganic soil improver
- PFC 4: Growing medium
- PFC 5: Inhibitor
  - 5A: Nitrification inhibitor
  - 5B: Denitrification inhibitor
  - 5C: Urease inhibitor
- PFC 6: Plant biostimulant
  - 6A: Microbial biostimulant
  - 6B: Non-microbial biostimulant
- PFC 7: Fertilising product blend

For each PFC, the regulations define lists a list of minimums and maximums to respect (depending on the PFC). The complete checking list for each PFC is shown in Appendix 2.

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While filling a sheet, the tool automatically checks that the material created complies with regulatory requirements. When a compliance is found, the cell under the PFC name turns red to green (Figure 5).

Figure 5: Valid PFC detected

More than one PFC can be detected simultaneously. The valid PFCs can be identified with hiding the wrong PFCs by clicking on the orange "Hide wrong PFC" button (Figure 6).

If no PFC emerges, it is possible to scroll down the list of PFCs by clicking on the green "Show all PFC" button (Figure 6) and investigate why the product is not compatible with potentially interesting PFCs PFC (missing analyses or outside the authorized ranges, unauthorized constitutive materials, …)

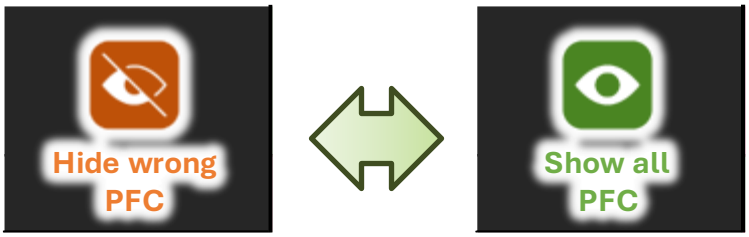

Figure 6: Hide/Show PFC buttons

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Appendix

Appendix 1:CMCs complete checking list

This tool has been developped in the EU project FERTIMANURE by RITTMO AGROENVIRONNEMENT, a memb of the consortium. The project has received funding from the European Union's Horizon2020 research &

FERTIMANURE

TEST_01

[Add details about actual CMC]

Hide wrong CMC

		CMC 01		CMC 02		CMC 03	
		Virgin material substances and mixtures		Plants, plant parts or plant extracts		Compost	
		VRAI		FAUX		FAUX	
RAW MATERIALS SELECTION							
Registered pursuant to Regulation (EC) No 1907/2006 (REACH)	☐	Yes	*VRAI*	Yes	*VRAI*		
Plant, plant parts or extracts, algae and mushrooms	☐	No	*VRAI*	Yes	*FAUX*	No	*VRAI*
Wastes (2008/98/EC)	☐	No	*VRAI*	No	*VRAI*	No	*VRAI*
Polymers	☐	No	*VRAI*	No	*VRAI*	No	*VRAI*
Food Industry by-products	☐	No	*VRAI*	No	*VRAI*	No	*VRAI*
Compost	☐	No	*VRAI*	No	*VRAI*	Yes	*FAUX*
Digestate	☐	No	*VRAI*	No	*VRAI*	No	*VRAI*
Thermal oxidation materials	☐	No	*VRAI*				
Pyrolysis and gazeification materials	☐	No	*VRAI*				
High purity materials	☐						
Organic chelating agent	☐	All yes if presence	*VRAI*	No	*VRAI*	No	*VRAI*
Organic complexing agent	☐	All yes if presence	*VRAI*	No	*VRAI*	No	*VRAI*
Nitrification inhibitor	☐	All yes if presence	*VRAI*	No	*VRAI*	No	*VRAI*
Denitrification inhibitor	☐	All yes if presence	*VRAI*	No	*VRAI*	No	*VRAI*
Urease inhibitor	☐	All yes if presence	*VRAI*	No	*VRAI*	No	*VRAI*
Micro-organisms	☐	No	*VRAI*	No	*VRAI*		
		Completed criteria:					

Parameters	**Unit**		0 / 0			0 / 0			0 / 8		
ELEMENTS AND POLLUTANTS			**MIN**	**MAX**	***CHECK***	**MIN**	**MAX**	***CHECK***	**MIN**	**MAX**	***CHECK***
Dry Matter (DM)	(% FM)										
Ratio H / C_{org}	(mol/mol)										
Total organic Carbon	(% FM)										
Total Phosphorus	(% P_2O_5/DM)										
Total Aluminium (Al) + Iron (Fe)	(% DM)										
Chloride (Cl-)	(g/kg DM)										
Cl- is needed to produce alkali salts (declared in accordance with annex III)	(Yes/No)										
Composting or digestion additives	(% FM)								0	5	*ND*
Total Chromium (Cr)	(mg/kg DM)										
Total Thallium (Tl)	(mg/kg DM)										
Total Vanadium (V)	(mg/kg DM)										
Sum 16 PAH	(mg/kg DM)								0	6	*ND*
Formaldehyde	(ppm)										
WHO-TEQ (2005) PCDD/F	(ng/kg DM)										
MICROORGANISMS											
Salmonella	(MPN/25 g FM)										
Enterococci (faecal streptococci)	(MPN/g FM)										
E.coli (faecal coliform germs)	(MPN/g FM)										
Clostridium perfringens	(MPN/g FM)										
Ascaris sp. viable eggs	(MPN/25 g FM)										
IMPURITIES											
Glass > 2 mm	(mg/kg DM)								0	3	*ND*
Stones > 2 mm	(mg/kg DM)										
Metal > 2 mm	(mg/kg DM)								0	3	*ND*
Organic Matter > 2 mm	(mg/kg DM)										
Plastics > 2 mm	(mg/kg DM)								0	3	*ND*
Sum of impurities > 2 mm	(mg/kg DM)								0	5	*ND*
BIOLOGICAL TESTS											
Oxygen Uptake Rate	(mmol O2/kg OM/h)								25	10000	*ND*
Rottegrad test	(Maturity level)								3	5	*ND*
Residual biogas potential	(L biogas/g volatile solids)										
Plant growth acute toxicity test	(% germination)										
Earthworm acute toxicity test	(% mortality)										
Nitrification inhibition test with soil micro-organisms	(% nitrification)										

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TEST_01

[Add details about actual CMC]

Hide wrong CMC

		CMC 04 Fresh crop digestate		CMC 05 Digestate other than fresh crop digestate		CMC 06 Food industry by-products	
		FAUX		FAUX		FAUX	
RAW MATERIALS SELECTION							
Registered pursuant to Regulation (EC) No 1907/2006 (REACH)	☐					Yes	VRAI
Plant, plant parts or extracts, algae and mushrooms	☐	No	VRAI	No	VRAI	Yes (optionnal)	
Wastes (2008/98/EC)	☐	No	VRAI	No	VRAI	No	VRAI
Polymers	☐	No	VRAI	No	VRAI	No	VRAI
Food Industry by-products	☐	No	VRAI	No	VRAI	Yes	FAUX
Compost	☐	No	VRAI	No	VRAI	No	VRAI
Digestate	☐	Yes	FAUX	Yes	FAUX	No	VRAI
Thermal oxidation materials	☐						
Pyrolysis and gazeification materials	☐						
High purity materials	☐						
Organic chelating agent	☐	No	VRAI	No	VRAI	No	VRAI
Organic complexing agent	☐	No	VRAI	No	VRAI	No	VRAI
Nitrification inhibitor	☐	No	VRAI	No	VRAI	No	VRAI
Denitrification inhibitor	☐	No	VRAI	No	VRAI	No	VRAI
Urease inhibitor	☐	No	VRAI	No	VRAI	No	VRAI
Micro-organisms	☐						

Parameters	Unit		0 / 3			0 / 8			0 / 0		
ELEMENTS AND POLLUTANTS			MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Dry Matter (DM)	(% FM)										
Ratio H / C_{org}	(mol/mol)										
Total organic Carbon	(% FM)										
Total Phosphorus	(% P_2O_5/DM)										
Total Aluminium (Al) + Iron (Fe)	(% DM)										
Chloride (Cl-)	(g/kg DM)										
Cl- is needed to produce alkali salts (declared in accordance with annex III)	(Yes/No)										
Composting or digestion additives	(% FM)		0	5	ND	0	5	ND			
Total Chromium (Cr)	(mg/kg DM)										
Total Thallium (Tl)	(mg/kg DM)										
Total Vanadium (V)	(mg/kg DM)										
Sum 16 PAH	(mg/kg DM)					0	6	ND			
Formaldehyde	(ppm)										
WHO-TEQ (2005) PCDD/F	(ng/kg DM)										
MICROORGANISMS											
Salmonella	(MPN/25 g FM)										
Enterococci (faecal streptococci)	(MPN/g FM)										
E.coli (faecal coliform germs)	(MPN/g FM)										
Clostridium perfringens	(MPN/g FM)										
Ascaris sp. viable eggs	(MPN/25 g FM)										
IMPURITIES											
Glass > 2 mm	(mg/kg DM)					0	3	ND			
Stones > 2 mm	(mg/kg DM)										
Metal > 2 mm	(mg/kg DM)					0	3	ND			
Organic Matter > 2 mm	(mg/kg DM)										
Plastics > 2 mm	(mg/kg DM)					0	3	ND			
Sum of impurities > 2 mm	(mg/kg DM)					0	5	ND			
BIOLOGICAL TESTS											
Oxygen Uptake Rate	(mmol O2/kg OM/h)		25	10000	ND	25	10000	ND			
Rottegrad test	(Maturity level)										
Residual biogas potential	(L biogas/g volatile solids)		0,25	1000	ND	0,25	1000	ND			
Plant growth acute toxicity test	(% germination)										
Earthworm acute toxicity test	(% mortality)										
Nitrification inhibition test with soil micro-organisms	(% nitrification)										

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TEST_01

[Add details about actual CMC]

Hide wrong CMC

		CMC 07 Micro-organisms		CMC 08 Nutrient polymers		CMC 09 Polymers other than nutrient polymers	
		FAUX		FAUX		FAUX	
RAW MATERIALS SELECTION							
Registered pursuant to Regulation (EC) No 1907/2006 (REACH)	☐			Yes	VRAI		
Plant, plant parts or extracts, algae and mushrooms	☐			No	VRAI		
Wastes (2008/98/EC)	☐			No	VRAI		
Polymers	☐			Yes	FAUX	Yes	FAUX
Food Industry by-products	☐			No	VRAI		
Compost	☐			No	VRAI		
Digestate	☐			No	VRAI		
Thermal oxidation materials	☐						
Pyrolysis and gazeification materials	☐						
High purity materials	☐						
Organic chelating agent	☐						
Organic complexing agent	☐						
Nitrification inhibitor	☐						
Denitrification inhibitor	☐						
Urease inhibitor	☐						
Micro-organisms	☐	Yes	FAUX				

Parameters	Unit		0 / 0			0 / 1			0 / 3		
ELEMENTS AND POLLUTANTS			MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Dry Matter (DM)	(% FM)										
Ratio H / C_{org}	(mol/mol)										
Total organic Carbon	(% FM)										
Total Phosphorus	(% P_2O_5/DM)										
Total Aluminium (Al) + Iron (Fe)	(% DM)										
Chloride (Cl-)	(g/kg DM)										
Cl- is needed to produce alkali salts (declared in accordance with annex III)	(Yes/No)										
Composting or digestion additives	(% FM)										
Total Chromium (Cr)	(mg/kg DM)										
Total Thallium (Tl)	(mg/kg DM)										
Total Vanadium (V)	(mg/kg DM)										
Sum 16 PAH	(mg/kg DM)										
Formaldehyde	(ppm)					0	600	ND			
WHO-TEQ (2005) PCDD/F	(ng/kg DM)										
MICROORGANISMS											
Salmonella	(MPN/25 g FM)										
Enterococci (faecal streptococci)	(MPN/g FM)										
E.coli (faecal coliform germs)	(MPN/g FM)										
Clostridium perfringens	(MPN/g FM)										
Ascaris sp. viable eggs	(MPN/25 g FM)										
IMPURITIES											
Glass > 2 mm	(mg/kg DM)										
Stones > 2 mm	(mg/kg DM)										
Metal > 2 mm	(mg/kg DM)										
Organic Matter > 2 mm	(mg/kg DM)										
Plastics > 2 mm	(mg/kg DM)										
Sum of impurities > 2 mm	(mg/kg DM)										
BIOLOGICAL TESTS											
Oxygen Uptake Rate	(mmol O2/kg OM/h)										
Rottegrad test	(Maturity level)										
Residual biogas potential	(L biogas/g volatile solids)										
Plant growth acute toxicity test	(% germination)								90	100	ND
Earthworm acute toxicity test	(% mortality)								0	10	ND
Nitrification inhibition test with soil micro-organisms	(% nitrification)								90	100	ND

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TEST_01

[Add details about actual CMC]

Hide wrong CMC

	CMC 10	CMC 11		CMC 12	
	Derived products within the meaning of Regulation (EC) No 1069/2009	By-products within the meaning of Directive 2008/98/EC		Precipitated phosphate salts and derivates	
	FAUX	FAUX		FAUX	
RAW MATERIALS SELECTION					
Registered pursuant to Regulation (EC) No 1907/2006 (REACH)		Yes	VRAI	Yes	VRAI
Plant, plant parts or extracts, algae and mushrooms					
Wastes (2008/98/EC)		Yes	FAUX		
Polymers		No	VRAI		
Food Industry by-products					
Compost		No	VRAI		
Digestate		No	VRAI		
Thermal oxidation materials		No	VRAI		
Pyrolysis and gazeification materials		No	VRAI		
High purity materials					
Organic chelating agent					
Organic complexing agent					
Nitrification inhibitor					
Denitrification inhibitor					
Urease inhibitor					
Micro-organisms					

Parameters	Unit		0 / 0			0 / 0			3 / 14		
ELEMENTS AND POLLUTANTS			MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Dry Matter (DM)	(% FM)										
Ratio H / C_{org}	(mol/mol)										
Total organic Carbon	(% FM)								0	3	ND
Total Phosphorus	(% P_2O_5/DM)								16	100	ND
Total Aluminium (Al) + Iron (Fe)	(% DM)								0	10	ND
Chloride (Cl-)	(g/kg DM)										
Cl- is needed to produce alkali salts (declared in accordance with annex III)	(Yes/No)										
Composting or digestion additives	(% FM)										
Total Chromium (Cr)	(mg/kg DM)										
Total Thallium (Tl)	(mg/kg DM)										
Total Vanadium (V)	(mg/kg DM)										
Sum 16 PAH	(mg/kg DM)								0	6	
Formaldehyde	(ppm)										
WHO-TEQ (2005) PCDD/F	(ng/kg DM)										
MICROORGANISMS											
Salmonella	(MPN/25 g FM)								0	0	ND
Enterococci (faecal streptococci)	(MPN/g FM)								0	1000	ND
E.coli (faecal coliform germs)	(MPN/g FM)										
Clostridium perfringens	(MPN/g FM)								0	100	
Ascaris sp. viable eggs	(MPN/25 g FM)								0	0	
IMPURITIES											
Glass > 2 mm	(mg/kg DM)								0	3	ND
Stones > 2 mm	(mg/kg DM)								0	3	ND
Metal > 2 mm	(mg/kg DM)								0	3	ND
Organic Matter > 2 mm	(mg/kg DM)								0	3	ND
Plastics > 2 mm	(mg/kg DM)								0	3	ND
Sum of impurities > 2 mm	(mg/kg DM)								0	5	ND
BIOLOGICAL TESTS											
Oxygen Uptake Rate	(mmol O2/kg OM/h)										
Rottegrad test	(Maturity level)										
Residual biogas potential	(L biogas/g volatile solids)										
Plant growth acute toxicity test	(% germination)										
Earthworm acute toxicity test	(% mortality)										
Nitrification inhibition test with soil micro-organisms	(% nitrification)										

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TEST_01

[Add details about actual CMC]

Hide wrong CMC

		CMC 13 Thermal oxidation materials and derivates		CMC 14 Pyrolysis and gasification materials		CMC 15 Recovered high purity materials	
		FAUX		FAUX		FAUX	
RAW MATERIALS SELECTION							
Registered pursuant to Regulation (EC) No 1907/2006 (REACH)	☐	Yes	*VRAI*	Yes	*VRAI*	Yes	*VRAI*
Plant, plant parts or extracts, algae and mushrooms	☐						
Wastes (2008/98/EC)	☐						
Polymers	☐						
Food Industry by-products	☐						
Compost	☐						
Digestate	☐						
Thermal oxidation materials	☐	Yes	*FAUX*				
Pyrolysis and gazeification materials	☐			Yes	*FAUX*		
High purity materials	☐					Yes	*FAUX*
Organic chelating agent	☐						
Organic complexing agent	☐						
Nitrification inhibitor	☐						
Denitrification inhibitor	☐						
Urease inhibitor	☐						
Micro-organisms	☐						

Parameters	Unit		1 / 8			1 / 5			1 / 8		
ELEMENTS AND POLLUTANTS			MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Dry Matter (DM)	(% FM)										
Ratio H / C_{org}	(mol/mol)					0	0,7	*ND*			
Total organic Carbon	(% FM)		0	3	*ND*				0	0,5	*ND*
Total Phosphorus	(% P_2O_5/DM)										
Total Aluminium (Al) + Iron (Fe)	(% DM)										
Chloride (Cl-)	(g/kg DM)		0	30	*ND*	0	30	*ND*			
Cl- is needed to produce alkali salts (declared in accordance with annex III)	(Yes/No)		Yes			Yes					
Composting or digestion additives	(% FM)										
Total Chromium (Cr)	(mg/kg DM)		0	400	*ND*				0	400	*ND*
Total Thallium (Tl)	(mg/kg DM)		0	2	*ND*	0	2	*ND*	0	2	*ND*
Total Vanadium (V)	(mg/kg DM)		0	600	*ND*						
Sum 16 PAH	(mg/kg DM)		0	6	*ND*				0	6	*ND*
Formaldehyde	(ppm)										
WHO-TEQ (2005) PCDD/F	(ng/kg DM)		0	20	*ND*	0	20	*ND*	0	20	*ND*
MICROORGANISMS											
Salmonella	(MPN/25 g FM)								0	0	*ND*
Enterococci (faecal streptococci)	(MPN/g FM)								0	1000	*ND*
E.coli (faecal coliform germs)	(MPN/g FM)								0	1000	
Clostridium perfringens	(MPN/g FM)										
Ascaris sp. viable eggs	(MPN/25 g FM)										
IMPURITIES											
Glass > 2 mm	(mg/kg DM)										
Stones > 2 mm	(mg/kg DM)										
Metal > 2 mm	(mg/kg DM)										
Organic Matter > 2 mm	(mg/kg DM)										
Plastics > 2 mm	(mg/kg DM)										
Sum of impurities > 2 mm	(mg/kg DM)										
BIOLOGICAL TESTS											
Oxygen Uptake Rate	(mmol O2/kg OM/h)										
Rottegrad test	(Maturity level)										
Residual biogas potential	(L biogas/g volatile solids)										
Plant growth acute toxicity test	(% germination)										
Earthworm acute toxicity test	(% mortality)										
Nitrification inhibition test with soil micro-organisms	(% nitrification)										

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

This tool has been developped in the EU project FERTIMANURE by RITTMO AGROENVIRONNEMENT, a member of the consortium. The project has received funding from the European Union's

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

			GLOBAL	1. FERTILISER											
				1.A. ORGANIC FERTILISER											
				1.A.I. SOLID ORGANIC FERTILISER						1.A.II. LIQUID ORGANIC FERTILISER					
				1.A.I.(a) Solid Organic Fertiliser			1.A.I.(b) Solid Organic Fertiliser			1.A.II.(a) Liquid Organic Fertiliser			1.A.II.(b) Liquid Organic Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
				All biological origin matter + peat, loenardite or lignite ONLY			All biological origin matter + peat, loenardite or lignite ONLY			All biological origin matter + peat, loenardite or lignite ONLY			All biological origin matter + peat, loenardite or lignite ONLY		
PROPORTION	**% w/w**		**0%**												
CLAIMED FUNCTION															
Fertiliser		☐	☐	Yes		FAUX	Yes		FAUX	Yes		FAUX	Yes		FAUX
Liming materials		☐	☐												
Soil improver		☐	☐												
Growing medium		☐	☐												
Inhibitor		☐	☐												
Plant biostimulant		☐	☐												
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid	Solid		VRAI	Solid		VRAI	Liquid		FAUX	Liquid		FAUX
Dry matter (%DM)	% RM		0,00												
Organic matter (%OM)	% RM		0,00												
Organic Carbon (%Corg)	% RM		0,00	15	100	FAUX	15	100	FAUX	5	100	FAUX	5	100	FAUX
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00	2,5	100	FAUX	1	100	FAUX	2	100	FAUX	1	100	FAUX
Total Phosphorus pentoxide (P2O5)	% RM		0,00	2	100	FAUX	1	100	FAUX	1	100	FAUX	1	100	FAUX
Total Potassium oxide (K2O)	% RM		0,00	2	100	FAUX	1	100	FAUX	2	100	FAUX	1	100	FAUX
Ammonia (NH4)	% RM		0,00												
Nitrate (NO3)	% RM		0,00												
Organic Nitrogen	% RM		0,00												
Total Magnesium (MgO)	% RM		0,00												
Total Calcium (CaO)	% RM		0,00												
Total Sulphur (SO3)	% RM		0,00												
Total Sodium (Na2O)	% RM		0,00												
Total Boron (B)	% RM		0,00												
Total Cobalt (Co)	% RM		0,00												
Total Copper (Cu)	% RM		0,00												
Total Iron (Fe)	% RM		0,00												
Total Manganese (Mn)	% RM		0,00												
Total Molybdenum (Mo)	% RM		0,00												
Total Zinc (Zn)	% RM		0,00												
Microelements in oxide or hydroxid form	yes/no		No												
Part of chelated micronutrient	% Micronutrient		0,00												
Part of complexed micronutrient	% Micronutrient		0,00												
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***				4	100	FAUX				3	100	FAUX
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***												
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***												

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2. PFC CONFORMITY

RESET

Hide unused CMC

CMC

[CMC_name]

Hide wrong PFC

				1. FERTILISER											
				1.A. ORGANIC FERTILISER											
				1.A.I. SOLID ORGANIC FERTILISER						1.A.II. LIQUID ORGANIC FERTILISER					
				1.A.I.(a) Solid Organic Fertiliser			1.A.I.(b) Solid Organic Fertiliser			1.A.II.(a) Liquid Organic Fertiliser			1.A.II.(b) Liquid Organic Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM			0	1,5	FAUX	0	1,5	FAUX	0	1,5	FAUX	0	1,5	FAUX
Hexavalent Chrome (Cr VI)	mg/kg DM			0	2	FAUX	0	2	FAUX	0	2	FAUX	0	2	FAUX
Mercury (Hg)	mg/kg DM			0	1	FAUX	0	1	FAUX	0	1	FAUX	0	1	FAUX
Nickel (Ni)	mg/kg DM			0	50	FAUX	0	50	FAUX	0	50	FAUX	0	50	FAUX
Lead (Pb)	mg/kg DM			0	120	FAUX	0	120	FAUX	0	120	FAUX	0	120	FAUX
Inorganic Arsenic (As inorg.)	mg/kg DM			0	40	FAUX	0	40	FAUX	0	40	FAUX	0	40	FAUX
Total Arsenic (As)	mg/kg DM														
Copper (Cu)	mg/kg DM			0	300	FAUX	0	300	FAUX	0	300	FAUX	0	300	FAUX
Zinc (Zn)	mg/kg DM			0	800	FAUX	0	800	FAUX	0	800	FAUX	0	800	FAUX
Biuret (C2H5N3O2)	g/kg DM			0	0	FAUX	0	0	FAUX	0	0	FAUX	0	0	FAUX
Perchlorate (ClO4)	mg/kg DM														
As/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Cd/P2O5	*mg/kg P2O5*	*0,00*													
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*													
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g			0	0	FAUX	0	0	FAUX	0	0	FAUX	0	0	FAUX
Escherichia coli	CFU/1 g			0	1000	FAUX	0	1000	FAUX	0	1000	FAUX	0	1000	FAUX
Enterococcae	CFU/1 g			0	1000		0	1000		0	1000		0	1000	
Listeria monocytogenes	CFU/25 g														
Vibrio spp	CFU/25 g														
Shigella spp	CFU/25 g														
Staphylococcus aureus	CFU/25 g														
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g														
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g														
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI
Nitrogen from NH4NO3	% RM		0,00												
1 mm grain size proportion	% RM		0,00												
Neutralising value (equivalent CaO)	-		0,00												
Neutralising value (equivalent HO-)	-		0,00												
Reactivity (hydrochloric test)	%		0,00												
Reactivity (6 month incubation test)	%		0,00												
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00												
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00												
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00												

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO, Horizon2020 research & innovation programme under grant agreement No 862849.

2. PFC CONFORMITY

RESET

Hide unused CMC

CMC

[CMC_name]

Hide wrong PFC

				1. FERTILISER											
				1.B. ORGANO-MINERAL FERTILISER											
				1.B.I. SOLID ORGANO-MINERAL FERTILISER						1.B.II. LIQUID ORGANO-MINERAL FERTILISER					
				1.B.I.(a) Solid Organo-Mineral Fertiliser			1.B.I.(b) Solid Organo-Mineral Fertiliser			1.B.II.(a) Liquid Organo-Mineral Fertiliser			1.B.II.(b) Liquid Organo-Mineral Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
			GLOBAL	Mineral fertiliser (PFC 1.C), all biological origin matter + peat, loenardite or lignite ONLY			Mineral fertiliser (PFC 1.C), all biological origin matter + peat, loenardite or lignite ONLY			Mineral fertiliser (PFC 1.C), all biological origin matter + peat, loenardite or lignite ONLY			Mineral fertiliser (PFC 1.C), all biological origin matter + peat, loenardite or lignite ONLY		
PROPORTION	**% w/w**		**0%**												
CLAIMED FUNCTION															
Fertiliser		☐	☐	Yes		FAUX	Yes		FAUX	Yes		FAUX	Yes		FAUX
Liming materials		☐	☐												
Soil improver		☐	☐												
Growing medium		☐	☐												
Inhibitor		☐	☐												
Plant biostimulant		☐	☐												
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid	Solid		VRAI	Solid		VRAI	Liquid		FAUX	Liquid		FAUX
Dry matter (%DM)	% RM		0,00												
Organic matter (%OM)	% RM		0,00												
Organic Carbon (%Corg)	% RM		0,00	7,5	100	FAUX	7,5	100	FAUX	3	100	FAUX	3	100	FAUX
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00	2,5	100	FAUX	2	100	FAUX	2	100	FAUX	2	100	FAUX
Total Phosphorus pentoxide (P2O5)	% RM		0,00	2	100	FAUX	2	100	FAUX	2	100	FAUX	2	100	FAUX
Total Potassium oxide (K2O)	% RM		0,00	2	100	FAUX	2	100	FAUX	2	100	FAUX	2	100	FAUX
Ammonia (NH4)	% RM		0,00												
Nitrate (NO3)	% RM		0,00												
Organic Nitrogen	% RM		0,00	1	100	FAUX	0,5	100	VRAI	0,5	100	FAUX	0,5	100	VRAI
Total Magnesium (MgO)	% RM		0,00												
Total Calcium (CaO)	% RM		0,00												
Total Sulphur (SO3)	% RM		0,00												
Total Sodium (Na2O)	% RM		0,00												
Total Boron (B)	% RM		0,00												
Total Cobalt (Co)	% RM		0,00												
Total Copper (Cu)	% RM		0,00												
Total Iron (Fe)	% RM		0,00												
Total Manganese (Mn)	% RM		0,00												
Total Molybdenum (Mo)	% RM		0,00												
Total Zinc (Zn)	% RM		0,00												
Microelements in oxide or hydroxid form	yes/no		No												
Part of chelated micronutrient	% Micronutrient		0,00												
Part of complexed micronutrient	% Micronutrient		0,00												
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***				8	100	FAUX				6	100	FAUX
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***												
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***												

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This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO, Horizon2020 research & innovation programme under grant agreement No 862849.

FERTIMANURE

2. PFC CONFORMITY

RESET

Hide unused CMC

CMC

[CMC_name]

Hide wrong PFC

				1. FERTILISER											
				1.B. ORGANO-MINERAL FERTILISER											
				1.B.I. SOLID ORGANO-MINERAL FERTILISER						1.B.II. LIQUID ORGANO-MINERAL FERTILISER					
				1.B.I.(a) Solid Organo-Mineral Fertiliser			1.B.I.(b) Solid Organo-Mineral Fertiliser			1.B.II.(a) Liquid Organo-Mineral Fertiliser			1.B.II.(b) Liquid Organo-Mineral Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM			0	3	FAUX	0	3	FAUX	0	3	FAUX	0	3	FAUX
Hexavalent Chrome (Cr VI)	mg/kg DM			0	2	FAUX	0	2	FAUX	0	2	FAUX	0	2	FAUX
Mercury (Hg)	mg/kg DM			0	1	FAUX	0	1	FAUX	0	1	FAUX	0	1	FAUX
Nickel (Ni)	mg/kg DM			0	50	FAUX	0	50	FAUX	0	50	FAUX	0	50	FAUX
Lead (Pb)	mg/kg DM			0	120	FAUX	0	120	FAUX	0	120	FAUX	0	120	FAUX
Inorganic Arsenic (As inorg.)	mg/kg DM			0	40	FAUX	0	40	FAUX	0	40	FAUX	0	40	FAUX
Total Arsenic (As)	mg/kg DM														
Copper (Cu)	mg/kg DM			0	600	FAUX	0	600	FAUX	0	600	FAUX	0	600	FAUX
Zinc (Zn)	mg/kg DM			0	1500	FAUX	0	1500	FAUX	0	1500	FAUX	0	1500	FAUX
Biuret (C2H5N3O2)	g/kg DM			0	12	FAUX	0	12	FAUX	0	12	FAUX	0	12	FAUX
Perchlorate (ClO4)	mg/kg DM														
As/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Cd/P2O5	*mg/kg P2O5*	*0,00*		0	60	VRAI	0	60	VRAI	0	60	VRAI	0	60	VRAI
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*													
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g			0	0	FAUX	0	0	FAUX	0	0	FAUX	0	0	FAUX
Escherichia coli	CFU/1 g			0	1000	FAUX	0	1000	FAUX	0	1000	FAUX	0	1000	FAUX
Enterococcae	CFU/1 g			0	1000		0	1000		0	1000		0	1000	
Listeria monocytogenes	CFU/25 g														
Vibrio spp	CFU/25 g														
Shigella spp	CFU/25 g														
Staphylococcus aureus	CFU/25 g														
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g														
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g														
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI
Nitrogen from NH4NO3	% RM		0,00	0	16	VRAI	0	16	VRAI	0	16	VRAI	0	16	VRAI
1 mm grain size proportion	% RM		0,00												
Neutralising value (equivalent CaO)	-		0,00												
Neutralising value (equivalent HO-)	-		0,00												
Reactivity (hydrochloric test)	%		0,00												
Reactivity (6 month incubation test)	%		0,00												
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00												
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00												
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00												

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This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

Hide wrong PFC

		[CMC_name]	GLOBAL	1. FERTILISER											
				1.C. INORGANIC FERTILISER											
				1.C.I. INORGANIC MACRONUTRIENT FERTILISER											
				1.C.I.a. SOLID INORGANIC MACRONUTRIENT FERTILISER											
				1.C.I.a.i.(a) Straight Solid Inorganic ?? Fertiliser			1.C.I.a.i.(b) Straight Solid Inorganic ?? Fertiliser			1.C.I.a.ii.(a) Solid Inorganic Compound Fertiliser			1.C.I.a.ii.(b) Solid Inorganic Compound Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
PROPORTION	**% w/w**		0%	1 Major or minor macronutrient ONLY			1 Major macronutrient and 1 or several Minor macronutrient			Mix of NPK only			Mix of Mg, Ca, S, Na only		
CLAIMED FUNCTION															
Fertiliser		☐	☐	Yes		FAUX	Yes		FAUX	Yes		FAUX	Yes		FAUX
Liming materials		☐	☐												
Soil improver		☐	☐												
Growing medium		☐	☐												
Inhibitor		☐	☐												
Plant biostimulant		☐	☐												
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid	Solid		VRAI	Solid		VRAI	Solid		VRAI	Solid		VRAI
Dry matter (%DM)	% RM		0,00												
Organic matter (%OM)	% RM		0,00												
Organic Carbon (%Corg)	% RM		0,00												
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00	10	100	FAUX	3	100	FAUX	3	100	FAUX			
Total Phosphorus pentoxide (P2O5)	% RM		0,00	12	100	FAUX	3	100	FAUX	3	100	FAUX			
Total Potassium oxide (K2O)	% RM		0,00	6	100	FAUX	3	100	FAUX	3	100	FAUX			
Ammonia (NH4)	% RM		0,00												
Nitrate (NO3)	% RM		0,00												
Organic Nitrogen	% RM		0,00												
Total Magnesium (MgO)	% RM		0,00	5	100	FAUX	1,5	100	FAUX				1,5	100	FAUX
Total Calcium (CaO)	% RM		0,00	12	100	FAUX	1,5	100	FAUX				1,5	100	FAUX
Total Sulphur (SO3)	% RM		0,00	10	100	FAUX	1,5	100	FAUX				1,5	100	FAUX
Total Sodium (Na2O)	% RM		0,00	1	40	FAUX	1	40	FAUX				1	40	FAUX
Total Boron (B)	% RM		0,00												
Total Cobalt (Co)	% RM		0,00												
Total Copper (Cu)	% RM		0,00												
Total Iron (Fe)	% RM		0,00												
Total Manganese (Mn)	% RM		0,00												
Total Molybdenum (Mo)	% RM		0,00												
Total Zinc (Zn)	% RM		0,00												
Microelements in oxide or hydroxid form	yes/no		No												
Part of chelated micronutrient	% Micronutrient		0,00												
Part of complexed micronutrient	% Micronutrient		0,00												
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***												
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***				18	100	FAUX	18	100	FAUX	18	100	FAUX
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***												

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

1. FERTILISER

1.C. INORGANIC FERTILISER

1.C.I. INORGANIC MACRONUTRIENT FERTILISER

1.C.I.a. SOLID INORGANIC MACRONUTRIENT FERTILISER

				1.C.I.a.i.(a) Straight Solid Inorganic ?? Fertiliser			1.C.I.a.i.(b) Straight Solid Inorganic ?? Fertiliser			1.C.I.a.ii.(a) Solid Inorganic Compound Fertiliser			1.C.I.a.ii.(b) Solid Inorganic Compound Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM			0	3	FAUX	0	3	FAUX	0	3	FAUX	0	3	FAUX
Hexavalent Chrome (Cr VI)	mg/kg DM			0	2	FAUX	0	2	FAUX	0	2	FAUX	0	2	FAUX
Mercury (Hg)	mg/kg DM			0	1	FAUX	0	1	FAUX	0	1	FAUX	0	1	FAUX
Nickel (Ni)	mg/kg DM			0	100	FAUX	0	100	FAUX	0	100	FAUX	0	100	FAUX
Lead (Pb)	mg/kg DM			0	120	FAUX	0	120	FAUX	0	120	FAUX	0	120	FAUX
Inorganic Arsenic (As inorg.)	mg/kg DM														
Total Arsenic (As)	mg/kg DM			0	40	FAUX	0	40	FAUX	0	40	FAUX	0	40	FAUX
Copper (Cu)	mg/kg DM			0	600	FAUX	0	600	FAUX	0	600	FAUX	0	600	FAUX
Zinc (Zn)	mg/kg DM			0	1500	FAUX	0	1500	FAUX	0	1500	FAUX	0	1500	FAUX
Biuret (C2H5N3O2)	g/kg DM			0	12	FAUX	0	12	FAUX	0	12	FAUX	0	12	FAUX
Perchlorate (ClO4)	mg/kg DM			0	50	FAUX	0	50	FAUX	0	50	FAUX	0	50	FAUX
As/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Cd/P2O5	*mg/kg P2O5*	*0,00*		0	60	VRAI	0	60	VRAI	0	60	VRAI	0	60	VRAI
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*													
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g														
Escherichia coli	CFU/1 g														
Enterococcae	CFU/1 g														
Listeria monocytogenes	CFU/25 g														
Vibrio spp	CFU/25 g														
Shigella spp	CFU/25 g														
Staphylococcus aureus	CFU/25 g														
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g														
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g														
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI
Nitrogen from NH4NO3	% RM		0,00	28	100	FAUX	28	100	FAUX	28	100	FAUX			
1 mm grain size proportion	% RM		0,00												
Neutralising value (equivalent CaO)	-		0,00												
Neutralising value (equivalent HO-)	-		0,00												
Reactivity (hydrochloric test)	%		0,00												
Reactivity (6 month incubation test)	%		0,00												
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00												
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00												
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00												

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

			GLOBAL	1. FERTILISER											
				1.C. INORGANIC FERTILISER											
				1.C.I. INORGANIC MACRONUTRIENT FERTILISER											
				1.C.I.b. LIQUID INORGANIC MACRONUTRIENT FERTILISER											
				1.C.I.b.i.(a) Straight Liquid Inorganic ?? Fertiliser			1.C.I.b.i.(b) Straight Liquid Inorganic ?? Fertiliser			1.C.I.b.ii. Liquid Inorganic Compound Fertiliser			1.C.I.b.ii. Liquid Inorganic Compound Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
				1 Major or minor macronutrient ONLY			1 Major macronutrient and 1 or several Minor macronutrient			Mix of NPK only			Mix of Mg, Ca, S, Na only		
PROPORTION	**% w/w**		0%												
CLAIMED FUNCTION															
Fertiliser		☐	☐	Yes		FAUX	Yes		FAUX	Yes		FAUX	Yes		FAUX
Liming materials		☐	☐												
Soil improver		☐	☐												
Growing medium		☐	☐												
Inhibitor		☐	☐												
Plant biostimulant		☐	☐												
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid	Liquid		FAUX	Liquid		FAUX	Liquid		FAUX	Liquid		FAUX
Dry matter (%DM)	% RM		0,00												
Organic matter (%OM)	% RM		0,00												
Organic Carbon (%Corg)	% RM		0,00												
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00	5	100	FAUX	1,5	100	FAUX	1,5	100	FAUX	1,5	100	FAUX
Total Phosphorus pentoxide (P2O5)	% RM		0,00	5	100	FAUX	1,5	100	FAUX	1,5	100	FAUX	1,5	100	FAUX
Total Potassium oxide (K2O)	% RM		0,00	3	100	FAUX	1,5	100	FAUX	1,5	100	FAUX	1,5	100	FAUX
Ammonia (NH4)	% RM		0,00												
Nitrate (NO3)	% RM		0,00												
Organic Nitrogen	% RM		0,00												
Total Magnesium (MgO)	% RM		0,00	2	100	FAUX	0,75	100	FAUX	0,75	100	FAUX	0,75	100	FAUX
Total Calcium (CaO)	% RM		0,00	6	100	FAUX	0,75	100	FAUX	0,75	100	FAUX	0,75	100	FAUX
Total Sulphur (SO3)	% RM		0,00	5	100	FAUX	0,75	100	FAUX	0,75	100	FAUX	0,75	100	FAUX
Total Sodium (Na2O)	% RM		0,00	1	40	FAUX	0,5	20	FAUX	0,5	20	FAUX	0,5	20	FAUX
Total Boron (B)	% RM		0,00												
Total Cobalt (Co)	% RM		0,00												
Total Copper (Cu)	% RM		0,00												
Total Iron (Fe)	% RM		0,00												
Total Manganese (Mn)	% RM		0,00												
Total Molybdenum (Mo)	% RM		0,00												
Total Zinc (Zn)	% RM		0,00												
Microelements in oxide or hydroxid form	yes/no		No												
Part of chelated micronutrient	% Micronutrient		0,00												
Part of complexed micronutrient	% Micronutrient		0,00												
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***												
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***				7	100	FAUX	7	100	FAUX	7	100	FAUX
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***												

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO

2. PFC CONFORMITY

RESET

Hide unused CMC

CMC

[CMC_name]

Hide wrong PFC

				1. FERTILISER											
				1.C. INORGANIC FERTILISER											
				1.C.I. INORGANIC MACRONUTRIENT FERTILISER											
				1.C.I.b. LIQUID INORGANIC MACRONUTRIENT FERTILISER											
				1.C.I.b.i.(a) Straight Liquid Inorganic ?? Fertiliser			1.C.I.b.i.(b) Straight Liquid Inorganic ?? Fertiliser			1.C.I.b.ii. Liquid Inorganic Compound Fertiliser			1.C.I.b.ii. Liquid Inorganic Compound Fertiliser		
				FAUX			FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM			0	3	FAUX	0	3	FAUX	0	3	FAUX	0	3	FAUX
Hexavalent Chrome (Cr VI)	mg/kg DM			0	2	FAUX	0	2	FAUX	0	2	FAUX	0	2	FAUX
Mercury (Hg)	mg/kg DM			0	1	FAUX	0	1	FAUX	0	1	FAUX	0	1	FAUX
Nickel (Ni)	mg/kg DM			0	100	FAUX	0	100	FAUX	0	100	FAUX	0	100	FAUX
Lead (Pb)	mg/kg DM			0	120	FAUX	0	120	FAUX	0	120	FAUX	0	120	FAUX
Inorganic Arsenic (As inorg.)	mg/kg DM														
Total Arsenic (As)	mg/kg DM			0	40	FAUX	0	40	FAUX	0	40	FAUX	0	40	FAUX
Copper (Cu)	mg/kg DM			0	600	FAUX	0	600	FAUX	0	600	FAUX	0	600	FAUX
Zinc (Zn)	mg/kg DM			0	1500	FAUX	0	1500	FAUX	0	1500	FAUX	0	1500	FAUX
Biuret (C2H5N3O2)	g/kg DM			0	12	FAUX	0	12	FAUX	0	12	FAUX	0	12	FAUX
Perchlorate (ClO4)	mg/kg DM			0	50	FAUX	0	50	FAUX	0	50	FAUX	0	50	FAUX
As/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Cd/P2O5	*mg/kg P2O5*	*0,00*		0	60	VRAI	0	60	VRAI	0	60	VRAI	0	60	VRAI
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*													
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*													
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g														
Escherichia coli	CFU/1 g														
Enterococcae	CFU/1 g														
Listeria monocytogenes	CFU/25 g														
Vibrio spp	CFU/25 g														
Shigella spp	CFU/25 g														
Staphylococcus aureus	CFU/25 g														
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g														
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g														
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI
Nitrogen from NH4NO3	% RM		0,00												
1 mm grain size proportion	% RM		0,00												
Neutralising value (equivalent CaO)	-		0,00												
Neutralising value (equivalent HO-)	-		0,00												
Reactivity (hydrochloric test)	%		0,00												
Reactivity (6 month incubation test)	%		0,00												
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00												
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00												
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00												

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO

2. PFC CONFORMITY

RESET

Hide unused CMC

Hide wrong PFC

		[CMC_name]	GLOBAL	1. FERTILISER											
				1.C. INORGANIC FERTILISER											
				1.C.II. INORGANIC MICRONUTRIENT FERTILISER											
				1.C.II.a. INORGANIC STRAIGHT MICRONUTRIENT FERTILISER											
				1.C.II.a.i. Micronutrient ?? fertiliser			1.C.II.a.ii. Micronutrient based fertiliser			1.C.II.a.iii. Micronutrient solution/suspension fertiliser			1.C.II.a.iv. Micronutrient chelate fertiliser		
				FAUX			FAUX			FAUX			FAUX		
PROPORTION	**% w/w**		**0%**	No more than 1 micronutrient			No more than 1 micronutrient			No more than 1 micronutrient			Chelating agent fulfilling ther requirements of CMC 01		
CLAIMED FUNCTION															
Fertiliser		☐	☐	Yes		FAUX	Yes		FAUX	Yes		FAUX	Yes		FAUX
Liming materials		☐	☐												
Soil improver		☐	☐												
Growing medium		☐	☐												
Inhibitor		☐	☐												
Plant biostimulant		☐	☐												
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid	Solid		VRAI	Solid		VRAI	Liquid		FAUX	Solid		VRAI
Dry matter (%DM)	% RM		0,00												
Organic matter (%OM)	% RM		0,00												
Organic Carbon (%Corg)	% RM		0,00												
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00												
Total Phosphorus pentoxide (P2O5)	% RM		0,00												
Total Potassium oxide (K2O)	% RM		0,00												
Ammonia (NH4)	% RM		0,00												
Nitrate (NO3)	% RM		0,00												
Organic Nitrogen	% RM		0,00												
Total Magnesium (MgO)	% RM		0,00												
Total Calcium (CaO)	% RM		0,00												
Total Sulphur (SO3)	% RM		0,00												
Total Sodium (Na2O)	% RM		0,00												
Total Boron (B)	% RM		0,00	10	100	FAUX	5	100	FAUX	2	100	FAUX	5	100	FAUX
Total Cobalt (Co)	% RM		0,00	10	100	FAUX	5	100	FAUX	2	100	FAUX	5	100	FAUX
Total Copper (Cu)	% RM		0,00	10	100	FAUX	5	100	FAUX	2	100	FAUX	5	100	FAUX
Total Iron (Fe)	% RM		0,00	10	100	FAUX	5	100	FAUX	2	100	FAUX	5	100	FAUX
Total Manganese (Mn)	% RM		0,00	10	100	FAUX	5	100	FAUX	2	100	FAUX	5	100	FAUX
Total Molybdenum (Mo)	% RM		0,00	10	100	FAUX	5	100	FAUX	2	100	FAUX	5	100	FAUX
Total Zinc (Zn)	% RM		0,00	10	100	FAUX	5	100	FAUX	2	100	FAUX	5	100	FAUX
Microelements in oxide or hydroxid form	yes/no		No												
Part of chelated micronutrient	% Micronutrient		0,00				0	80	VRAI				80	100	FAUX
Part of complexed micronutrient	% Micronutrient		0,00				0	80	VRAI				0	80	VRAI
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***												
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***												
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***												

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This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO

2. PFC CONFORMITY

RESET

Hide unused CMC

[CMC_name]

Hide wrong PFC

				1. FERTILISER											
				1.C. INORGANIC FERTILISER											
				1.C.II. INORGANIC MICRONUTRIENT FERTILISER											
				1.C.II.a. INORGANIC STRAIGHT MICRONUTRIENT FERTILISER											
				1.C.II.a.i. Micronutrient ?? fertiliser			1.C.II.a.ii. Micronutrient based fertiliser			1.C.II.a.iii. Micronutrient solution/suspension fertiliser			1.C.II.a.iv. Micronutrient chelate fertiliser		
				FAUX			FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM														
Hexavalent Chrome (Cr VI)	mg/kg DM														
Mercury (Hg)	mg/kg DM														
Nickel (Ni)	mg/kg DM														
Lead (Pb)	mg/kg DM														
Inorganic Arsenic (As inorg.)	mg/kg DM														
Total Arsenic (As)	mg/kg DM														
Copper (Cu)	mg/kg DM														
Zinc (Zn)	mg/kg DM														
Biuret (C2H5N3O2)	g/kg DM														
Perchlorate (ClO4)	mg/kg DM														
As/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	1000	*FAUX*	0	1000	*FAUX*	0	1000	*FAUX*	0	1000	*FAUX*
Cd/P2O5	*mg/kg P2O5*	*0,00*													
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	200	*FAUX*	0	200	*FAUX*	0	200	*FAUX*	0	200	*FAUX*
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	600	*FAUX*	0	600	*FAUX*	0	600	*FAUX*	0	600	*FAUX*
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	100	*FAUX*	0	100	*FAUX*	0	100	*FAUX*	0	100	*FAUX*
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	2000	*FAUX*	0	2000	*FAUX*	0	2000	*FAUX*	0	2000	*FAUX*
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g														
Escherichia coli	CFU/1 g														
Enterococcae	CFU/1 g														
Listeria monocytogenes	CFU/25 g														
Vibrio spp	CFU/25 g														
Shigella spp	CFU/25 g														
Staphylococcus aureus	CFU/25 g														
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g														
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g														
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	*VRAI*	0	0,5	*VRAI*	0	0,5	*VRAI*	0	0,5	*VRAI*
Nitrogen from NH4NO3	% RM		0,00												
1 mm grain size proportion	% RM		0,00												
Neutralising value (equivalent CaO)	-		0,00												
Neutralising value (equivalent HO-)	-		0,00												
Reactivity (hydrochloric test)	%		0,00												
Reactivity (6 month incubation test)	%		0,00												
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00												
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00												
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00												

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2. PFC CONFORMITY

RESET

Hide unused CMC

Hide wrong PFC

				1. FERTILISER									2. LIMING MATERIAL		
				1.C. INORGANIC FERTILISER											
				1.C.II. INORGANIC MICRONUTRIENT FERTILISER											
				1.C.II.a. INORGANIC STRAIGHT MICRONUTRIENT			1.C.II.b. INORGANIC COMPOUND MICRONUTRIENT FERTILISER								
				1.C.II.a.v. Micronutrient complex fertiliser			1.C.II.b.i Solid inorganic compound micronutrient fertiliser			1.C.II.b.ii Liquid inorganic compound micronutrient fertiliser			2. Liming material ()		
		[CMC_name]		FAUX			FAUX			FAUX			FAUX		
			GLOBAL	Complexing agent fulfilling ther requirements of CMC 01			Mix of B, Co, Cu, Fe, Mn, Mo or Zn			Mix of B, Co, Cu, Fe, Mn, Mo or Zn					
PROPORTION	**% w/w**		**0%**												
CLAIMED FUNCTION															
Fertiliser		☐	☐	Yes		FAUX	Yes		FAUX	Yes		FAUX			
Liming materials		☐	☐										Yes		FAUX
Soil improver		☐	☐												
Growing medium		☐	☐												
Inhibitor		☐	☐												
Plant biostimulant		☐	☐												
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid												
Dry matter (%DM)	% RM		0,00												
Organic matter (%OM)	% RM		0,00												
Organic Carbon (%Corg)	% RM		0,00												
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00												
Total Phosphorus pentoxide (P2O5)	% RM		0,00												
Total Potassium oxide (K2O)	% RM		0,00												
Ammonia (NH4)	% RM		0,00												
Nitrate (NO3)	% RM		0,00												
Organic Nitrogen	% RM		0,00												
Total Magnesium (MgO)	% RM		0,00												
Total Calcium (CaO)	% RM		0,00												
Total Sulphur (SO3)	% RM		0,00												
Total Sodium (Na2O)	% RM		0,00												
Total Boron (B)	% RM		0,00	5	100	FAUX									
Total Cobalt (Co)	% RM		0,00	5	100	FAUX									
Total Copper (Cu)	% RM		0,00	5	100	FAUX									
Total Iron (Fe)	% RM		0,00	5	100	FAUX									
Total Manganese (Mn)	% RM		0,00	5	100	FAUX									
Total Molybdenum (Mo)	% RM		0,00	5	100	FAUX									
Total Zinc (Zn)	% RM		0,00	5	100	FAUX									
Microelements in oxide or hydroxid form	yes/no		No												
Part of chelated micronutrient	% Micronutrient		0,00	0	80	VRAI									
Part of complexed micronutrient	% Micronutrient		0,00	80	100	FAUX									
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***												
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***												
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***				5	100	FAUX	2	100	FAUX			

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2. PFC CONFORMITY

RESET

Hide unused CMC

CMC

[CMC_name]

Hide wrong PFC

				1. FERTILISER									2. LIMING MATERIAL		
				1.C. INORGANIC FERTILISER											
				1.C.II. INORGANIC MICRONUTRIENT FERTILISER											
				1.C.II.a. INORGANIC STRAIGHT MICRONUTRIENT			1.C.II.b. INORGANIC COMPOUND MICRONUTRIENT FERTILISER								
				1.C.II.a.v. Micronutrient complex fertiliser			1.C.II.b.i Solid inorganic compound micronutrient fertiliser			1.C.II.b.ii Liquid inorganic compound micronutrient fertiliser			2. Liming material ()		
				FAUX			FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM												0	2	FAUX
Hexavalent Chrome (Cr VI)	mg/kg DM												0	2	FAUX
Mercury (Hg)	mg/kg DM												0	1	FAUX
Nickel (Ni)	mg/kg DM												0	90	FAUX
Lead (Pb)	mg/kg DM												0	120	FAUX
Inorganic Arsenic (As inorg.)	mg/kg DM														
Total Arsenic (As)	mg/kg DM												0	40	FAUX
Copper (Cu)	mg/kg DM												0	300	FAUX
Zinc (Zn)	mg/kg DM												0	800	FAUX
Biuret (C2H5N3O2)	g/kg DM														
Perchlorate (ClO4)	mg/kg DM														
As/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	1000	FAUX	0	1000	FAUX	0	1000	FAUX			
Cd/P2O5	*mg/kg P2O5*	*0,00*													
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	200	FAUX	0	200	FAUX	0	200	FAUX			
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	600	FAUX	0	600	FAUX	0	600	FAUX			
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	100	FAUX	0	100	FAUX	0	100	FAUX			
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*		0	2000	FAUX	0	2000	FAUX	0	2000	FAUX			
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g														
Escherichia coli	CFU/1 g														
Enterococcae	CFU/1 g														
Listeria monocytogenes	CFU/25 g														
Vibrio spp	CFU/25 g														
Shigella spp	CFU/25 g														
Staphylococcus aureus	CFU/25 g														
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g														
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g														
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI
Nitrogen from NH4NO3	% RM		0,00												
1 mm grain size proportion	% RM		0,00										70	100	FAUX
Neutralising value (equivalent CaO)	-		0,00										15	100	FAUX
Neutralising value (equivalent HO-)	-		0,00										9	100	FAUX
Reactivity (hydrochloric test)	%		0,00										10	100	FAUX
Reactivity (6 month incubation test)	%		0,00										50	100	FAUX
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00												
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00												
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00												

This project has received funding from the EU Horizon 2020 Research and Innovation Program under grant agreement No. 862849

This tool has been developped in the EU project FERTIMANURE by RITTMO AGRO

FERTIMANURE

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

				3. SOIL IMPROVER						4. GROWING MEDIUM		
				3.A. Organic Soil Improver			3.B. Inorganic Soil Improver			4. Growing medium		
				FAUX			FAUX			FAUX		
PROPORTION	**% w/w**		**0%**	95% Organic matter + peat, lignite, leonardite (optional)						EU fertilising product other than soil, for plant, mushrooms or algae growing		
CLAIMED FUNCTION												
Fertiliser		☐	☐									
Liming materials		☐	☐									
Soil improver		☐	☐	Yes		FAUX	Yes		FAUX			
Growing medium		☐	☐							Yes		FAUX
Inhibitor		☐	☐									
Plant biostimulant		☐	☐									
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid									
Dry matter (%DM)	% RM		0,00	20	100	FAUX						
Organic matter (%OM)	% RM		0,00				0	12	VRAI			
Organic Carbon (%Corg)	% RM		0,00	7,5	100	FAUX	0	7	VRAI			
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00									
Total Phosphorus pentoxide (P2O5)	% RM		0,00									
Total Potassium oxide (K2O)	% RM		0,00									
Ammonia (NH4)	% RM		0,00									
Nitrate (NO3)	% RM		0,00									
Organic Nitrogen	% RM		0,00									
Total Magnesium (MgO)	% RM		0,00									
Total Calcium (CaO)	% RM		0,00									
Total Sulphur (SO3)	% RM		0,00									
Total Sodium (Na2O)	% RM		0,00									
Total Boron (B)	% RM		0,00									
Total Cobalt (Co)	% RM		0,00									
Total Copper (Cu)	% RM		0,00									
Total Iron (Fe)	% RM		0,00									
Total Manganese (Mn)	% RM		0,00									
Total Molybdenum (Mo)	% RM		0,00									
Total Zinc (Zn)	% RM		0,00									
Microelements in oxide or hydroxid form	yes/no		No									
Part of chelated micronutrient	% Micronutrient		0,00									
Part of complexed micronutrient	% Micronutrient		0,00									
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***									
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***									
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***									

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FERTIMANURE

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

				3. SOIL IMPROVER						4. GROWING MEDIUM		
				3.A. Organic Soil Improver			3.B. Inorganic Soil Improver			4. Growing medium		
				FAUX			FAUX			FAUX		
POLLUTANTS				**MIN**	**MAX**	**CHECK**	**MIN**	**MAX**	**CHECK**	**MIN**	**MAX**	**CHECK**
Cadmium (Cd)	mg/kg DM			0	2	FAUX	0	1,5	FAUX	0	2	FAUX
Hexavalent Chrome (Cr VI)	mg/kg DM			0	2	FAUX	0	2	FAUX	0	2	FAUX
Mercury (Hg)	mg/kg DM			0	1	FAUX	0	1	FAUX	0	1	FAUX
Nickel (Ni)	mg/kg DM			0	50	FAUX	0	100	FAUX	0	50	FAUX
Lead (Pb)	mg/kg DM			0	120	FAUX	0	120	FAUX	0	120	FAUX
Inorganic Arsenic (As inorg.)	mg/kg DM			0	40	FAUX	0	40	FAUX	0	40	FAUX
Total Arsenic (As)	mg/kg DM											
Copper (Cu)	mg/kg DM			0	300	FAUX	0	300	FAUX	0	200	FAUX
Zinc (Zn)	mg/kg DM			0	800	FAUX	0	800	FAUX	0	500	FAUX
Biuret (C2H5N3O2)	g/kg DM											
Perchlorate (ClO4)	mg/kg DM											
As/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Cd/P2O5	*mg/kg P2O5*	*0,00*										
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*										
PATHOGENS				**MIN**	**MAX**	**CHECK**	**MIN**	**MAX**	**CHECK**	**MIN**	**MAX**	**CHECK**
Salmonella spp.	CFU/25 g			0	0	FAUX				0	0	FAUX
Escherichia coli	CFU/1 g			0	1000	FAUX				0	1000	FAUX
Enterococcae	CFU/1 g			0	1000	FAUX				0	1000	FAUX
Listeria monocytogenes	CFU/25 g											
Vibrio spp	CFU/25 g											
Shigella spp	CFU/25 g											
Staphylococcus aureus	CFU/25 g											
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g											
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g											
OTHERS				**MIN**	**MAX**	**CHECK**	**MIN**	**MAX**	**CHECK**	**MIN**	**MAX**	**CHECK**
Unintentional phosphonates	% HPO3		0,00	0	1	VRAI	0	0,5	VRAI	0	0,5	VRAI
Nitrogen from NH4NO3	% RM		0,00									
1 mm grain size proportion	% RM		0,00									
Neutralising value (equivalent CaO)	-		0,00									
Neutralising value (equivalent HO-)	-		0,00									
Reactivity (hydrochloric test)	%		0,00									
Reactivity (6 month incubation test)	%		0,00									
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00									
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00									
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00									

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2. PFC CONFORMITY

RESET

CMC

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Hide wrong PFC

			GLOBAL	5. INHIBITOR								
				5.A. Nitrification Inhibitor			5.B. Denitrification Inhibitor			5.C. Urease Inhibitor		
				FAUX			FAUX			FAUX		
				EU fertilising product other than soil, for plant, mushrooms or algae growing			EU fertilising product other than soil, for plant, mushrooms or algae growing			EU fertilising product other than soil, for plant, mushrooms or algae growing		
PROPORTION	**% w/w**		**0%**									
CLAIMED FUNCTION												
Fertiliser		☐	☐									
Liming materials		☐	☐									
Soil improver		☐	☐									
Growing medium		☐	☐									
Inhibitor		☐	☐	Yes		*FAUX*	Yes		*FAUX*	Yes		*FAUX*
Plant biostimulant		☐	☐									
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid									
Dry matter (%DM)	% RM		0,00									
Organic matter (%OM)	% RM		0,00									
Organic Carbon (%Corg)	% RM		0,00									
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00									
Total Phosphorus pentoxide (P2O5)	% RM		0,00									
Total Potassium oxide (K2O)	% RM		0,00									
Ammonia (NH4)	% RM		0,00									
Nitrate (NO3)	% RM		0,00									
Organic Nitrogen	% RM		0,00									
Total Magnesium (MgO)	% RM		0,00									
Total Calcium (CaO)	% RM		0,00									
Total Sulphur (SO3)	% RM		0,00									
Total Sodium (Na2O)	% RM		0,00									
Total Boron (B)	% RM		0,00									
Total Cobalt (Co)	% RM		0,00									
Total Copper (Cu)	% RM		0,00									
Total Iron (Fe)	% RM		0,00									
Total Manganese (Mn)	% RM		0,00									
Total Molybdenum (Mo)	% RM		0,00									
Total Zinc (Zn)	% RM		0,00									
Microelements in oxide or hydroxid form	yes/no		No									
Part of chelated micronutrient	% Micronutrient		0,00									
Part of complexed micronutrient	% Micronutrient		0,00									
Sum Major Macroelements (N+P2O5+K2O)	*% RM*	*0,00*	***0,00***									
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***									
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***									

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2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

				5. INHIBITOR								
				5.A. Nitrification Inhibitor			5.B. Denitrification Inhibitor			5.C. Urease Inhibitor		
				FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM											
Hexavalent Chrome (Cr VI)	mg/kg DM											
Mercury (Hg)	mg/kg DM											
Nickel (Ni)	mg/kg DM											
Lead (Pb)	mg/kg DM											
Inorganic Arsenic (As inorg.)	mg/kg DM											
Total Arsenic (As)	mg/kg DM											
Copper (Cu)	mg/kg DM											
Zinc (Zn)	mg/kg DM											
Biuret (C2H5N3O2)	g/kg DM											
Perchlorate (ClO4)	mg/kg DM											
As/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Cd/P2O5	*mg/kg P2O5*	*0,00*										
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*										
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g											
Escherichia coli	CFU/1 g											
Enterococcae	CFU/1 g											
Listeria monocytogenes	CFU/25 g											
Vibrio spp	CFU/25 g											
Shigella spp	CFU/25 g											
Staphylococcus aureus	CFU/25 g											
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g											
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g											
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	VRAI	0	0,5	VRAI	0	0,5	VRAI
Nitrogen from NH4NO3	% RM		0,00									
1 mm grain size proportion	% RM		0,00									
Neutralising value (equivalent CaO)	-		0,00									
Neutralising value (equivalent HO-)	-		0,00									
Reactivity (hydrochloric test)	%		0,00									
Reactivity (6 month incubation test)	%		0,00									
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00	20	100	FAUX						
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00				20	100	FAUX			
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00							20	100	FAUX

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FERTIMANURE

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

				6. PLANT BIOSTIMULANT						7. FERTILISING PRODUCT BLEND		
				6.A. Microbial Plant Biostimulant			6.B. Non-microbial Plant Biostimulant			7. Fertilising Product Blend		
				FAUX			FAUX			FAUX		
			GLOBAL	Product with the sole aim oif improving nutrient use efficiency, tolerance to abiotic stress, quality traits or nutrient availability			Product with the sole aim oif improving nutrient use efficiency, tolerance to abiotic stress, quality traits or nutrient availability			Mix of 1 to 6 PFC		
PROPORTION	**% w/w**		0%									
CLAIMED FUNCTION												
Fertiliser		☐	☐							At least 2 of them		FAUX
Liming materials		☐	☐									
Soil improver		☐	☐									
Growing medium		☐	☐									
Inhibitor		☐	☐									
Plant biostimulant		☐	☐	Yes		FAUX	Yes		FAUX			
GENERALITIES				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Form	Solid/Liquid		Solid									
Dry matter (%DM)	% RM		0,00									
Organic matter (%OM)	% RM		0,00									
Organic Carbon (%Corg)	% RM		0,00									
NUTRIENTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Total Nitrogen (N)	% RM		0,00									
Total Phosphorus pentoxide (P_2O_5)	% RM		0,00									
Total Potassium oxide (K_2O)	% RM		0,00									
Ammonia (NH_4)	% RM		0,00									
Nitrate (NO_3)	% RM		0,00									
Organic Nitrogen	% RM		0,00									
Total Magnesium (MgO)	% RM		0,00									
Total Calcium (CaO)	% RM		0,00									
Total Sulphur (SO_3)	% RM		0,00									
Total Sodium (Na_2O)	% RM		0,00									
Total Boron (B)	% RM		0,00									
Total Cobalt (Co)	% RM		0,00									
Total Copper (Cu)	% RM		0,00									
Total Iron (Fe)	% RM		0,00									
Total Manganese (Mn)	% RM		0,00									
Total Molybdenum (Mo)	% RM		0,00									
Total Zinc (Zn)	% RM		0,00									
Microelements in oxide or hydroxid form	yes/no		No									
Part of chelated micronutrient	% Micronutrient		0,00									
Part of complexed micronutrient	% Micronutrient		0,00									
Sum Major Macroelements ($N+P_2O_5+K_2O$)	*% RM*	*0,00*	***0,00***									
Sum Major and minor Macroelements (N+P+K+Mg+Ca+S+Na)	*% RM*	*0,00*	***0,00***									
Sum Microelements (B+Co+Cu+Fe+Mn+Mo+Zn)	*%RM*	*0,00*	***0,00***									

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FERTIMANURE

2. PFC CONFORMITY

RESET

CMC

Hide unused CMC

[CMC_name]

Hide wrong PFC

				6. PLANT BIOSTIMULANT						7. FERTILISING PRODUCT BLEND		
				6.A. Microbial Plant Biostimulant			6.B. Non-microbial Plant Biostimulant			7. Fertilising Product Blend		
				FAUX			FAUX			FAUX		
POLLUTANTS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Cadmium (Cd)	mg/kg DM			0	1,5	FAUX	0	1,5	FAUX			
Hexavalent Chrome (Cr VI)	mg/kg DM			0	2,0	FAUX	0	2,0	FAUX			
Mercury (Hg)	mg/kg DM			0	1,0	FAUX	0	1,0	FAUX			
Nickel (Ni)	mg/kg DM			0	50,0	FAUX	0	50,0	FAUX			
Lead (Pb)	mg/kg DM			0	120,0	FAUX	0	120,0	FAUX			
Inorganic Arsenic (As inorg.)	mg/kg DM			0	40,0	FAUX	0	40,0	FAUX			
Total Arsenic (As)	mg/kg DM											
Copper (Cu)	mg/kg DM			0	600,0	FAUX	0	600,0	FAUX			
Zinc (Zn)	mg/kg DM			0	1500,0	FAUX	0	1500,0	FAUX			
Biuret (C2H5N3O2)	g/kg DM											
Perchlorate (ClO4)	mg/kg DM											
As/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Cd/P2O5	*mg/kg P2O5*	*0,00*										
Cd/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Pb/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Hg/Micronutr.	*mg/kg Micronutr.*	*0,00*										
Ni/Micronutr.	*mg/kg Micronutr.*	*0,00*										
PATHOGENS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Salmonella spp.	CFU/25 g			0	0	FAUX	0	0	FAUX			
Escherichia coli	CFU/1 g			0	0	FAUX	0	1000	FAUX			
Enterococcae	CFU/1 g			0	10	FAUX	0	1000				
Listeria monocytogenes	CFU/25 g			0	0	FAUX						
Vibrio spp	CFU/25 g			0	0	FAUX						
Shigella spp	CFU/25 g			0	0	FAUX						
Staphylococcus aureus	CFU/25 g			0	0	FAUX						
Anaerobic plate count unless the microbial plant biostimulant is an aerobic bacterium	CFU/1 g			0	1,E+05	FAUX						
Yeast and mould count unless the microbial plant biostimulant is a fungus	CFU/1 g			0	1000	FAUX						
OTHERS				MIN	MAX	CHECK	MIN	MAX	CHECK	MIN	MAX	CHECK
Unintentional phosphonates	% HPO3		0,00	0	0,5	VRAI	0	0,5	VRAI			
Nitrogen from NH4NO3	% RM		0,00									
1 mm grain size proportion	% RM		0,00									
Neutralising value (equivalent CaO)	-		0,00									
Neutralising value (equivalent HO-)	-		0,00									
Reactivity (hydrochloric test)	%		0,00									
Reactivity (6 month incubation test)	%		0,00									
Reduction of annomiacal nitrogen oxidation	% NH3 oxidation reduc. compared to negative Control		0,00									
Reduction of nitrous oxide release	% N2O release reduc. compared to negative Control		0,00									
Reduction of urea hydrolysis	% CH4N2O hydrolysis reduc. compared to negative Control		0,00									

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