

APPENDIX 1* : COMMENTS ON THE CONFORMITY : SAMPLE n° A_MF14_2119.6

The following document is an evaluation of your product's conformity (sample n° A_MF14_2119.6) called « SAMAGROW 4-3-3». This evaluation is conducted by means of the analysis carried out by our laboratory and according to the specifications given in **NF U 42-001/A10 : 2009**»

The standard examined in the NF U 42-001/A10 is classified as below:

Classe VI-1 : organic fertilizers entirely of vegetable and/or animal origin (with at least 1 % organic nitrogen).

☞ **Type 5 : dehydrated poultry manure**

Different specifications are given in this standard. **The product analysed has to respect these specifications and no tolerances are allowed.** So as to put the product on the market according to this standard, the minima contents must be reached. However, the laboratory has measurement uncertainty associated to each analysis. Therefore, it may happen that the minima content given in the NF U standard is discussed with the measurement uncertainty.

1- CONFORMITY EVALUATION OF SPECIFICATIONS ACCORDING TO NF U 42-001 :

The analytical results of the sample n° A_MF14_2119.6 are in compliance with the specifications given in the NF U standard, as shown in the following chart:

The laboratory is certified by the **Comité Français d'Accréditation (COFRAC)** for program 108 « Fertilizers ». Certification n° 1-0551. (first certification COFRAC the 31/05/95, renewed the 01/01/2004).
Recognized by **Direction Générale de la Concurrence, de la Consommation et de la Répression des Fraudes** for the delivery of report analysis dedicated to exportation (arrêté du 6/10/1997).

* this document is joined to the corresponding report analysis.

Standard/Category	Type	Specifications	Conformity	Uncertainty (absolute)
NF U 42-001/A10 : Décembre 2009 Classe VI-1	Type 5 : Dehydrated poultry manure	Dry Matter > 75% N + P ₂ O ₅ + K ₂ O > 7% N tot > 3% P ₂ O ₅ > 2.5% Organic Nitrogen (*) > 1%	YES (86.7 g/100g) YES (10.5 g/100g) YES (4.5 g/100g) YES (3.4 g/100g) YES (4.2 g/100g)	DM : 1 % N tot : 0.3 % P ₂ O ₅ : 0.5 % K ₂ O : 0.5 %

* : N organic = N total – N mineral. For this sample, NNO₃ is considered negligible.

2- RECOMMANDATION :

According to "arrêté du 5 septembre 2003 relatif aux vérifications auxquelles doit procéder le responsable de la mise sur le marché des matières fertilisantes et supports de culture"

Anyone who sell fertilizers have to control its products in order to check that the specifications corresponding of the standard announced are respected. Therefore, the contents represented on the label have to be controlled every four months.

Heavy metals (As, Cd, Cr, Cu, Hg, Mo, Ni, Pb, Se, Zn) have to be controlled every six months.

For organic products, bacteriological analysis must be carried out to verify health hazards for human people and animals, periodically.

3 - REFERENCES :

NF 42-001/A10 : 2009

Arrêté du 5 septembre 2003 relatif aux vérifications auxquelles doit procéder le responsable de la mise sur le marché des matières fertilisantes.

Arrêté du 5 septembre 2014 portant mise en application obligatoire de normes.

R. CHUMILLAS

Technical manager of the fertilizers chemical analysis unit.

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Fertilizers analysis

Your Identification

Reference : SAMAGROW 4-3-3

Sampling by: Yourself

Laboratory Identification

Reference : A_MF14.2119.6

Sample receipt : 19/12/2014

Analysis start : 19/12/2014

Sample validation : 24/02/2015

Analysis denomination		Result <i>on raw material</i>	Unit	Result <i>on dry materiel</i>	Unit	Method
*	Sampling for analysis					NF U 42090/Reg 2003/2003
*	Sampling for trace analysis					NF X 31-150
*	Uncrushable particles (sampling)	0	g/100g			
*	Moisture content at 105°C	13.3	g/100g			NF U 44-171
*	Dry matter	86.7	g/100g			NF U 44-171
*	Organic matter by calcination	63.4	g/100g	731.38	g/kg	NF U 44-160
*	Organic carbon (calculation)	31.7	g/100g	365.69	g/kg	NF U 44-160
	Total carbon (elemental analyser)	31.78	g/100g			LDAR method
	Organic carbon by calculation (Ctotal – 0.12 x CaCO ₃)	30.6	g/100g			LDAR method
	SOL fraction (soluble organic compounds)	50.2	% OM			XP U 44-162 dec. 2009
	HEM fraction (hemicelluloses)	26.2	% OM			XP U 44-162 dec. 2009
	CEL fraction (celluloses)	18.5	% OM			XP U 44-162 dec. 2009
	LIC fraction (lignins and cutins)	5.1	% OM			XP U 44-162 dec. 2009
	Mineralization coefficient at 3 days (ct3)	26.6	% OC			XP U 44-163
	Index of Organic Matter Stability (ISMO)	8.2	% OM			XP U 44-162 dec. 2009
	CaCO ₃ (A or B variant)	9.5 A	g/100g			LDAR method
	C/N ratio	7.1				Calculation
	Total nitrogen	4.5	g/100g	51.91	g/kg	NF EN 13654-2 adapted
*	Ammonia nitrogen (N)	0.28	g/100g	3.23	g/kg	NF U 42-125 mod.
*	Ureic nitrogen (N)	< 0.1	g/100g	< 1.15	g/kg	NF U 42-191 mod
	Organic nitrogen (N)	4.2	g/100g	48.45	g/kg	Calculation
*	Phosphorus aqua regia ICP (P2O5)	3.4	g/100g	39.22	g/kg	NF EN 13650mod NF EN ISO 11885
	Potassium aqua regia ICP (K2O)	2.6	g/100g	29.99	g/kg	NF EN 13650mod NF EN ISO 11885
	Calcium aqua regia ICP (CaO)	8.1	g/100g	93.44	g/kg	NF EN 13650mod NF EN ISO 11885

**ANALYSIS REPORT OF SAMPLE N°:
A_MF14.2119.6-2**

**SAMAGRO MME MORLION JULIE
BEVERENSTRAAT 78
8691 LEISELE (BELGIUM)**

Fertilizers analysis

Your Identification

Reference : SAMAGROW 4-3-3

Sampling by: Yourself

Laboratory Identification

Reference : A_MF14.2119.6

Sample receipt : 19/12/2014

Analysis start : 19/12/2014

Sample validation : 24/02/2015

Magnesium aqua regia ICP (MgO)	1.4	g/100g	16.15	g/kg	NF EN 13650mod NF EN ISO 11885
* Arsenic aqua regia AASHG (As)	< 1.3	mg/kg	< 1.50	mg/kg	NF EN 13650mod
* Cadmium aqua regia AASGF (Cd)	0.39	mg/kg	0.45	mg/kg	NF EN 13650mod
* Chromium aqua regia ICP (Cr)	15.6	mg/kg	18.00	mg/kg	NF EN 13650mod NF EN ISO 11885
* Mercury aqua regia AASCV (Hg)	< 0.13	mg/kg	< 0.15	mg/kg	NF EN 13650mod
* Nickel aqua regia ICP (Ni)	5.7	mg/kg	6.58	mg/kg	NF EN 13650mod NF EN ISO 11885
* Lead aqua regia ICP (Pb)	< 6.6	mg/kg	< 7.61	mg/kg	NF EN 13650mod NF EN ISO 11885
Selenium aqua regia AASHG (Se)	< 0.53	mg/kg	< 0.61	mg/kg	NF EN 13650mod
Copper aqua regia ICP (Cu)	0.0067	g/100g	77.29	mg/kg	NF EN 13650mod NF EN ISO 11885
Molybdenum aqua regia AASGF (Mo)	< 0.0003	g/100g	< 3.46	mg/kg	NF EN 13650mod NF EN ISO 11885
* Zinc aqua regia ICP (Zn)	0.028	g/100g	323.01	mg/kg	NF EN 13650mod NF EN ISO 11885
Conformity evaluation of specifications according to a standard	See annex 1				

**Scientific validation was done the 24th of February 2015 by Rafaël CHUMILLAS, technical manager.
Quality analysis is guaranteed by this validation which is equivalent to the signature of this report.**

Printed in Laon, the 25th of February 2015

COFRAC certification is a guarantee of the laboratory competence for the analysis marked by *.

The sample is kept in the laboratory during 4 months after scientific validation.

The results mentioned are applicable only to the analysed sample.

No copy of the report is allowed without laboratory agreement.

The LDAR is a public and independent laboratory.

