

Optifeed Drain/Slab water Check

 Nutrient solution
 1106-2020-000

Your client number is: 8696497

 Eurofins Agro Testing UK Ltd i54
 Business Park
 Valiant Way
 WV9 5GB WOLVERHAMPTON Groot
 Britannie

Modified

Sample	Research-/ordernumber: 577045/005258036	Date sampling: 26-11-2020	Date report: 08-12-2020	Code of object: GUPN
	Test code: 510	Receiving date: 03-12-2020	Sample was taken by: Third party	Contactperson sampling:

Results	analysis	at EC			basic scheme			correc-tion	water+ drain	A+B tank	total dose
		2,70	target	low	normal	high					
	pH	6,6	6,6	5,5							
mS/cm 25°C	EC	1,7	1,7	3,0			2,4			2,3	2,3
Cations mmol/l	NH ₄	0,1	0,1	< 0,5			1,3			1,3	1,3
	K	4,3	7,3	7,0			6,8			6,5	6,5
	Na	1,2	1,2								
	Ca	4,1	7,0	7,0			4,5		2,3	2,1	4,3
	Mg	0,9	1,5	2,5			3,0	0,5		3,3	3,3
Anions mmol/l	NO ₃	8,7	14,9	20,0			16,8			17,1	17,1
	Cl	1,2	1,2								
	S	1,2	2,1	3,5			2,5		0,5	2,1	2,6
	HCO ₃	2,2	2,2						3,5	3,5	
	P	1,13	1,93	0,80			1,25	-0,5		0,75	0,75
Micro-nutrients µmol/l	Fe	0,7	0,7	25			25	13		38	38
	Mn	10	10	5,0			10			10	10
	Zn	2,7	2,7	7,0			5,0	1,3		6,3	6,3
	B	27	27	50			35	8,8	0,6	43	44
	Cu	2,0	2,0	1,0			1,0	-0,3		0,8	0,8
	Mo	0,5	0,5	0,5			0,5			0,5	0,5
mmol/l	Si	0,21	0,21								
	K/Ca	1,0		1,0							

The Total dose is the sum of what is present in the water and from the nutrients.
 Deviating results are shown in RED. The Ca/K-ration is calculated.

Results

	analysis	at EC 2,70	target	low	normal	high	basic scheme	correc-tion	water+ drain	A+B tank	total dose
	pH	6,6	6,6	5,5							
mS/cm 25°C	EC	1,7	1,7	3,0			2,4			2,3	2,3
cations ppm (mg/l)	NH ₄	1,8	1,8	< 9,1			23			23	23
	K	168	285	274			266			254	254
	Na	28	28								
	Ca	164	281	281			180		92	84	172
	Mg	22	36	61			73	12		80	80
anions ppm (mg/l)	NO ₃	539	924	1240			1042			1060	1060
	Cl	43	43								
	S	38	67	112			80		16	67	83
	HCO ₃	134	134						214	214	
	P	35	60	25			39	-15		23	23
ppm (mg/l)	Fe	0,04	0,04	1,40			1,40	0,73		2,12	2,12
	Mn	0,55	0,55	0,28			0,55			0,55	0,55
	Zn	0,18	0,18	0,46			0,33	0,09		0,41	0,41
	B	0,29	0,29	0,54			0,38	0,10	0,007	0,47	0,48
	Cu	0,13	0,13	0,06			0,06	-0,02		0,05	0,05
	Mo	0,05	0,05	0,05			0,05			0,05	0,05
	Si	5,9	5,9								
	K/Ca	1,0		1,0							

Recommend.

Calcium nitrate	44,3	kg
Ammonium nitrate liquid	10,5	l
Potassium nitrate	57,7	kg
Nitric acid 60%	3,8	l
Chelated iron DTPA 6% +	1750	g
Chelated iron EDDHA 6%	1750	g

A

1000 liter 100 * concentrated

Nitric acid 60%	23,0	l
Mono potassium phosphate	10,2	kg
Magnesium sulphate	50,7	kg
Magnesium nitrate sol.	30,9	kg
Manganese sulphate 32%	170	g
Zinc sulphate 23%	180	g
Borax	410	g
Copper sulphate	19	g
Sodium molybdate	12	g

B

1000 liter 100 * concentrated

Please maintain one A+B tank.

Fertilizer type:

solid

Explanation

- DRIP EC : 2,4 / if the set DRIP EC shows a deviation of more than 10 % from this level, correction of the amount of acid is necessary.
- DRIP pH : Due to the high pH and bicarbonate (HCO₃)-level, extra NH₄ has been advised. Lower the DRIP pH (not below pH 5.0).
- Iron chelate : due to the rather high pH, we recommend 50% as Fe-EDDHA

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Crop data	Crop	Herbs	DRIP EC	not indicated
	Type of crop		System	drainage
	Growing stage		Base water	7.9.0.2.0.0.

History	pH	EC mS/cm	NH ₄ mmol/l	K	Na	Ca	Mg	NO ₃	Cl	S	HCO ₃	P	Si	Fe µmol/l	Mn	Zn	B	Cu	Mo
03-12-20	6,6	1,7	0,1	7,3	1,2	7,0	1,5	14,9	1,2	2,1	2,2	1,93	0,21	0,7	10	2,7	27	2,0	0,5
	6,6	2,4	0,2	6,1	1,2	5,9	1,2	12,5	1,2	1,8	2,2	1,58	0,20	1,1	14	3,9	36	3,2	0,8

Method	pH																			
	EC																			
	NH ₄																			
	NO ₃																			

Q Method accredited by RvA

Em: Method Eurofins Agro, Gw: Equivalent of, Cf: In conformity with

* For this procedure the maximum shelf life between sampling and analysis has been exceeded.
This may have affected the reliability of the result.

The reported results only refer to the processed material on 03-12-2020

MODIFIED REPORT

This report supersedes all earlier versions sent under the same number on the basis of "date report".