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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	5,2								
mS/cm 25°C	EC	3,0	3,0	3,0				2,1		0,8	2,5	3,2
Cations mmol/l	NH_4	< 0,1	< 0,1	< 0,5				1,3			1,3	1,3
	K	6,7	6,6	8,0				8,0		1,7	10,6	12,3
	Na	2,6	2,6							0,7		0,7
	Ca	7,7	7,6	7,5				4,5		2,1	4,8	6,9
	Mg	2,5	2,5	3,0				1,4		0,6	1,5	2,1
Anions mmol/l	NO_3	18,7	16,8	19,4				16,5		4,7	19,4	24,1
	Cl	2,7	2,4						0,7	0,7	0,4	1,0
	S	3,0	2,7	3,5				1,4		0,8	1,3	2,0
	HCO_3	0,2	0,2							0,4	0,4	
	P	1,14	1,03	1,30				1,80		0,29	2,46	2,74
Micro-nutrients	Fe	47	47	37				22		12	10	22
	Mn	19	19	10				20		4,8	15	20
								7,0	-1,8	4,5		

Analysis report
on drain water and potting soil

What is the greatest challenge you face as an agricultural entrepreneur? To increase output, improve efficiency or to reduce your environmental impact?

These are some of the topics that are important for the entire agricultural sector, as well as for each entrepreneur. We at Eurofi ns Agro like to help you face these challenges, by giving insight through clear analysis reports. We trust the report will provide you with the required information to optimize your results.

On the following pages we give you an short explanation of our analysis reports on drain water and potting soil.

If you have any questions, please contact our greenhouse horticulture customer service by phone **+31 88 876 10 14** or e-mail: **horti@eurofins.com**

Our staff will be pleased to help you.

Optifeed
Nutrient solution
Drain

Example

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Sample
Research-/ordernumber: 528663/003840850
Date sampling: 21-06-2016
Receiving date: 22-06-2016
Test code: 510
Date report: 29-06-2016
Sample was taken by: Third party
A Code of object: 1
Contactperson sampling: Rien Roestenburg: 0652002152

Results

		column 1	2 at EC 2,70	3 target	4 low	4 normal	4 high	5 basic scheme	6 correc-tion	7 water+ drain	8 A+B tank	9 total dose
	pH	6,6	6,6	5,2				2,1		0,8	2,5	3,2
mS/cm 25°C	EC	3,0	3,0	3,0				1,3			1,3	1,3
Cations mmol/l	NH_4	< 0,1	< 0,1	< 0,5				8,0		1,7	10,6	12,3
	K	6,7	6,6	8,0						0,7		0,7
	Na	2,6	2,6					4,5		2,1	4,8	6,9
	Ca	7,7	7,6	7,5				1,4		0,6	1,5	2,1
	Mg	2,5	2,5	3,0				16,5		4,7	19,4	24,1
Anions mmol/l	NO_3	18,7	16,8	19,4					0,7	0,7	0,4	1,0
	Cl	2,7	2,4					1,4		0,8	1,3	2,0
	S	3,0	2,7	3,5						0,4	0,4	
	HCO_3	0,2	0,2					1,80		0,29	2,46	2,74
	P	1,14	1,03	1,30				22		12	10	22
Micro-nutrients µmol/l	Fe	47	47	37				20		4,8	15	20
	Mn	19	19	10				7,0	-1,8	4,5	0,7	5,2
	Zn	18	18	10				38		21	17	38
	B	84	84	75				0,8		0,3	0,5	0,8
	Cu	1,1	1,1	1,5				1,0		0,3	0,7	1,0
	Mo	1,3	1,3	1,0								
mmol/l	Si	0,18	0,18									
	K/Ca	0,87	1,1									

The total dose is the sum of plain water+fertilizers+drain water that is supplied to the crop. Deviating results are in red. The K/Ca-ratio is calculated.

EXPLANATION
columns

A **Object/location code for building up the historic overview on the back of the report**

1 **Analysis results**

2 **Conversion of analysis results to reference EC** (with Na and Cl correction)

3 **Target values**

4 **Valuation of column 2 in comparison with to column 3**

5 **Basic nutritional plan**

6 **Correction of the basic plan, based on analysis results and/or cultivation stage**

7 **Correction of the basic plan based on output water and/or recirculation water**

8 **Quantity in the A and B tanks**

9 **Total dose** (sum of column 7 and column 8)

EXPLANATION
crop data

B **% output water (rain, osmosis, spring, piped, and/or surface water) 1.1.0.0.0.0. = HCO_3.Ca.Mg.S.NO_3.K**
Calculated based on the output-water sample you have provided.

C **% recirculation water, which you provided.**

EC drip 3,2
System recirculation
Base water B 75% from scheme 1.1.0.0.0.0.
Drain sample C 25% from sample 528663

Drain

Recommend.

Calcium nitrate	103,1	kg
Ammonium nitrate liquid	3,7	l
Potassium nitrate	14,8	kg
KCl 52,4%	2,7	kg
Nitric acid 38%	2,9	l
Iron chelate DTPA 6% +	475	g
Iron chelate EDDHA 6%	475	g

A

1000 liter *100 * concentrated*

Nitric acid 38%	2,9	l
Potassium nitrate	63,8	kg
Mono potassium phosphate	33,5	kg
Magnesium sulphate	31,1	kg
Magnesium nitrate liquid	6,5	l
Manganese sulphate 32%	260	g
Zinc sulphate 23%	20	g
Borax	160	g
Copper sulphate	12	g
Sodium molybdate	16	g

B

1000 liter *100 * concentrated*

Please maintain one A+B tank. Fertilizer type: solid

Explanation
EC drip : 3,2
pH drip : The pH is high, DRIP pH should be lowered (not below pH 5.0).
Iron chelate : Due to the rather high pH, we recommend 50% as Fe-EDDHA.
Salt levels : If possible apply additional water.

Crop data
Crop cucumber
Type of crop
Growing stage

EC drip 3,2
System recirculation
Base water B 75% from scheme 1.1.0.0.0.0.
Drain sample C 25% from sample 528663

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Eurofins Agro's horticultural roots lie in Naaldwijk in the Netherlands, in the former Trial Station. Beside its scientific research, growers would come here for the analysis of their own operations. This service became the foundation for Eurofins Agro's greenhouse horticulture activities. We are now based in a modern and efficient laboratory in the agricultural university city of Wageningen. And, like the greenhouse horticulture sector itself, Eurofins Agro has become an international player.

From regional to international; but still near you

In addition to the laboratory, we have a depot and advisory service for fertilisation and plant health in the World Horti Center in Naaldwijk, Westland, the Netherlands.

You can always approach the Eurofins Agro customer service for greenhouse horticulture. To assist you expertly and quickly, staff members have been specially trained in greenhouse horticulture; in them you will fi nd reliable discussion partners.

About Eurofins Agro

Eurofins Agro is a leading laboratory in the agricultural sector with nearly 100 years of experience. We provide innovative analyses, accurate and timely data and clear, case-specific advice, to help agricultural entrepreneurs to manage their production process. Our products and services are the result of everyday, practical knowledge supported by scientific research.

The Eurofins Agro promise
We help you to collect the right data, and provide insight into soil and crop health, fertilisation, feed value, and food safety. We give you greater insight with the prospect of profitable growth - growth that you can be proud of.

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