

**Fagron Services BV**  
Molenwerf 13

1911 Uitgeest(NETHERLANDS)  
A l'attention de : FSNL COA

### CERTIFICATE OF ANALYSIS

PRODUCT NAME : Solutio ammonii acetatis  
BATCH NUMBER : 18L19-B09  
ANALYTICAL NUMBER :  
RECEPTION DATE : 04-Apr-2019 10:37:29 AM  
ENTRY NUMBER : ACE-2019-00018792  
START OF ANALYSIS : 16/04/2019

TESTS	SPECIFICATIONS	RESULTS
<b><u>CHARACTERS</u></b>	Colorless liquid , odorless or with low acetic odor, with a salty taste.	Colorless liquid, odorless
<b><u>IDENTIFICATIONS</u></b> A- Ammonium B- Reaction (a) of acetates	Odor characteristic. Alcalin reaction Odor characteristic. Alcalin reaction	Complies Complies
<b><u>TESTS</u></b> Solution aspect pH determination Relative density Formates and others reducing substances Sulfates Chlorures Residue on evaporation Heavy metals (A)	Clear and colorless 5.5 to 7.5 1.028 to 1.034 The mixture keeps a hanging purplish tint 5min at least. ≤100 ppm ≤50 ppm ≤ 0.1% ≤ 20 ppm	Clear and colorless 6.2 1.032 Complies <100 ppm <50 ppm 0.1% < 20 ppm
<b><u>ASSAYS</u></b> Ammonium acetate content	15.0 to 16.0 %	15.1%

NOTE : Analysis performed according to client method 18ACE261  
CONCLUSION : COMPLIES FOR PERFORMED TESTS

Analyst  
CDO, CJE, CBR

Approbator

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Kraków, 14.01.2019

**Certificate of analysis no. 21/FSNL/2019**

Description of the sample:

<b>Name of the sample:</b>	Solutio ammonia acetatis
<b>Batch number:</b>	18L19-B09
<b>Expiration date:</b>	-
<b>Required specifications:</b>	Internal requirements

Test results:

Parameter	Limit value	Result	Statement of compliance
Appearance	<i>Colorless, odourless or very weak acetonetic odour, with a salty taste</i>	<i>Colorless, very weak acetonetic odour</i>	complies
Identification	A. <i>characteristic odour, alkaline reaction</i>	complies	complies
	B. <i>characteristic odour, acid reaction</i>	complies	complies
Appearance of solution	<i>Clear and colourless</i>	complies	complies
pH	5,5 – 7,5	6,20	complies
Relative density	1,028-1,034	1,0318	complies
Formate and other reducing substances	The mixture keeps a hanging purplish tint 5 min at least	complies	complies
The residue on evaporation	NMT 0,1%	0,00 %	complies
Chlorides	NMT 50 ppm	complies	complies
Sulfates	NMT 100 ppm	complies	complies
Heavy metals	NMT 20 ppm	complies	complies
Assay	15,0 to 16,0%	15,22 %	complies

Date of analysis: 12.01-14.01.2019

Statement of compliance:

The sample meet the requirements for performed tests.

Approved by: *15.01.2019 Rafał Wójcik*  
*Magdalena*

*15.01.2019 Katarzyna Olszewska*

*14.01.19 MSK*

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