



**TÜBİTAK**  
**BURSA TEST AND ANALYSIS LABORATORY**

BUTAL
GT20170213
20/11/2017

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**TEST REPORT**

**Customer Name/Address** IBCO / COLSEN / Fonteinkruidstraat 3. 2548WL DEN HAAG / / HOLLAND

**T/F:**( ) - / / ( ) --

**Order Date/No** : 13/11/2017

**Sample Description** : Ammonium Nitrate Samples on behalf of Matlı Feed

**Sample Receipt Date** :17/11/2017

**Sample Delivered by:** In person

**Number of Pages:** 3

**Number of Copies:**1

Remark: Sampling and identification of sample was done by the customer. At the request of the customer Turkish version of the same date and numbered report was created

Test results, methods and other information are given on the following pages which are part of this report. This report and results can not be used for the purpose of advertising by the requesting client. This report has been given as a full content and can not be copied by sections. This report can not be reproduced without prior written approval of TÜBİTAK BUTAL. The results shown in this report refer only to samples tested. Test reports without signature and seal are not valid.



**Date**

20/11/2017

**Person in Charge of Laboratories**

Anil ÇETİNOĞLU

**Director**

Sedat AKTAŞ

**Test Date** : 17-20.11.2017

**Sample Identification:** Ammonium Nitrate Samples on behalf of Matlı Feed

Parameter	Unit	Test Method	Test Result Mean $\pm$ s
Ammonium	%	Kjeldahl Destillation	9.20 $\pm$ 0.05
Nitrate	%	IC Method	33.6 $\pm$ 0.1
Ammonium Nitrate ,Purity	%	Calculation	42.1 $\pm$ 1.7
Organic Matter	%	by Total Organic Carbon Device	0.25 $\pm$ 0.01
Total Nitrogen	mg/l	DIN 38409-28	9.0 $\pm$ 0.1
Humic Acid	%	TS 5869 ISO 5073	0.016 $\pm$ 0.001
Total Phosphorus (P <sub>2</sub> O <sub>5</sub> )	%	ICP-OES	101.2 $\pm$ 1.9
Total Phosphorus	mg/l	ICP-OES	44.2 $\pm$ 0.8
Water Soluble Potassium Oxide (K <sub>2</sub> O)	mg/l	ICP-OES	179.4 $\pm$ 8.3
Potassium	mg/l	AAS-Flame	148.9 $\pm$ 6.9
pH		EN 13037	3.81 $\pm$ 0.01
Conductivity (Ec)	mS/cm	EN 13037	347.5 $\pm$ 0.1

**Testing Done by**

**Person(s) in Charge of Testing**

**Person Responsible for Laboratory**

Sibel TAŞKESEN Uzm. Teknisyen

Güler ÇELİK Araştırmacı

Güler ÇELİK Araştırmacı

Anıl ÇETİNOĞLU Uzman A.TŞ.

Parameter	Unit	Test Method	Test Result Mean $\pm$ s
Calcium (Ca)	mg/l	ICP-OES	286.6 $\pm$ 1.2
Magnesium (Mg)	mg/l	ICP-OES	53.5 $\pm$ 1.6
Iron (Fe)	mg/l	ICP-OES	2.22 $\pm$ 0.07
Zinc (Zn)	mg/l	AAS-Flame	6.06 $\pm$ 0.23
Manganese (Mn)	mg/l	ICP-OES	1.77 $\pm$ 0.01
Arsenic (As)	mg/l	ICP-MS	0.017 $\pm$ 0.003
Mercury (Hg)	mg/l	AAS-Cold Vapour	<0.05
Lead (Pb)	mg/l	ICP-OES	0.34 $\pm$ 0.01
Cadmium (Cd)	mg/l	ICP-MS	<0.005

Testing Done by

Person(s) in Charge of Testing

Person Responsible for Laboratory

  
Sibel TAŞKESEN Uzm. Teknisyen  
Gülser ÇELİK Araştırmacı  
Güler ÇELİK Araştırmacı  
Anıl ÇETİNOĞLU Uzman Ars