

**T.C.**  
**GIDA TARIM ve HAYVANCILIK BAKANLIĞI**  
**ÖZEL MRL MERKEZ ARAŞTIRMA VE KONTROL LABORATUVARI**  
(TURKISH REPUBLIC MINISTRY OF FOOD AGRICULTURE AND LIVESTOCK  
PRIVATE MRL CENTRAL RESEARCH AND CONTROL LABORATORY)  
**MUAYENE VE ANALİZ RAPORU**  
(ANALYSIS REPORT)



Tarih (Date) : 23.01.2018

Rapor No (Report No) : 11800902

**Analiz Amacı (Reason of Analysis)** : ÖZEL İSTEK (PRIVATE REQUEST)  
**Numuneyi Gönderen / Adres (Sample sent by / Address)** : MND KAHVALTILIK GIDA SAN TİC.A.Ş/ANKARA  
**Numune Alma Tutanağının Tarihi / Sayısı (Date and Number of Sampling Protocol)** : - / -  
**Numunenin (Sample's)**  
**Cinsi (Type)** : Bal (Süzme) (Honey)  
**Miktarı/Adedi (Amount/Pieces)** : 628 g  
**Ambalajı (Package)** : Kapaklı Cam Kavanoz (Covered Glass Jar)  
**Seri No / Parti No / Mühür No (Serial No / Lot No / Seal No)** : - / 10 / -  
**Üretici-Firma Adı / Kodu (Producer-Firm Name / Code)** : - / T36  
**Marka (Brand)** : -  
**Üretim ve Son Kullanma Tarihi (Production and Expire Date)** : - / -  
**Alındığı Yer ve Tarih (Location and Date of Sampling)** : - / -  
**Numuneyi Alan (Sample taken by)** : -  
**Numune Kod Numarası (Sample Code Number)** : 10  
**Analiz Başlama ve Bitiş Tarihi (Date of Beginning and End of Analysis)** : 22.01.2018 / 23.01.2018  
**Laboratuvara Geliş Şekli ve Tarihi (Delivery of sample / Date of receipt)** : Kargo (by Cargo) / 22.01.2018 09:21

Yapılan Analizler (Analyses)	Sonuç (Result)	Ölçüm Limiti (LOQ)	Birim (Unit)	Geri Kazanım (Recovery)	Analiz Metodu (Analyses Method)
Nem(Rutubet) (Moisture) <sup>1</sup>	16.90		%		IHC, S.09-11, 2002
Diastaz Sayısı (Number Of Diastase) <sup>1</sup>	10.7				IHC, S.38-40, 2002
Elektriksel İletkenlik (Electrical Conductivity)	1.05		ms/cm		IHC, S.15-17, 2002
Prolin (Proline) <sup>1</sup>	561.0		mg/kg		IHC, S.58-59, 2002
pH	4.96				IHC, S.20-22, 2002
Serbest Asitlik (Free Acidity)	27.6		meq/kg		IHC, S.20-22, 2002
HMF (Hydroxymethylfurfural) <sup>1</sup> (HMF (Hydroxymethylfurfural))	10.0	1.0	mg/kg		IHC, S.25-27, 2002
Delta C13 Değerleri ve C4 Şekeri <sup>1</sup> (Delta C13 value and C4 Sugars)					AOAC 998.12, 2013
C4 Şekerleri Oranı (C4 Sugars Ratio)	0.2		%		
C13 Değerleri Arasındaki Fark (Differences Between C13 Values)	-0.03		‰		
Delta C13 Protein (Delta C13 Proteins)	-24.66		‰		
Delta C13 Ham Bal (Delta C13 Raw Product)	-24.63		‰		
Şeker Profili (Sugar Profile) <sup>1</sup>					AOAC 977.20, 2010
Fruktoz (Fructose)	35.0		g/100 g		
Glukoz (Glucose)	31.7		g/100 g		
Maltoz (Maltose)	Tespit Edilemedi (Not Detected)	0.5	g/100 g		
Sakkaroz (Sucrose)	2.1	0.5	g/100 g		
Fruktoz/Glukoz (Fructose/Glucose)	1.10				
Fruktoz+Glukoz (Fructose+Glucose)	66.7		g/100 g		

**Not: 5070 sayılı Elektronik İmza Kanunu gereği elektronik imza ile imzalanmıştır.**

**E-imzalı belge doğrulama linki: <https://trilms.sgs.com/Eimza/EimzaKontrol.aspx?ID=f3056a3a-03b5-4f6a-a6c0-6e3928e6390110>**

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.mrl.com.tr/terms\\_and\\_conditions.htm](http://www.mrl.com.tr/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.mrl.com.tr/terms\\_e-document.htm](http://www.mrl.com.tr/terms_e-document.htm).

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 15 days only.



Rapor No (Report No) : 11800902

Tarih (Date) : 23.01.2018

Yapılan Analizler (Analyses)	Sonuç (Result)	Ölçüm Limiti (LOQ)	Birim (Unit)	Geri Kazanım (Recovery)	Analiz Metodu (Analyses Method)
---------------------------------	-------------------	--------------------------	-----------------	-------------------------------	------------------------------------

Yapılan muayene ve analiz sonucunda yukarıda belirtilen değerler tespit edilmiştir. (Above mentioned values have been determined from the analytical work performed)  
Deney laboratuvarı olarak faaliyet gösteren MRL Merkez Kalıntı Araştırma Laboratuvarı, TÜRKAK'tan AB-0184-T ile TS EN ISO/IEC 17025:2012 standardına göre akredite edilmiştir. (MRL Central Research and Control Laboratory accredited by TÜRKAK under registration number AB-0184-T for TS EN ISO/IEC 17025:2012 as test laboratory.)

## Notlar (Notes)

- Bu analiz raporu adli-idari işlemlerde ve reklam amacıyla kullanılamaz. (This report shall not be used in the executive-judicial processes and for advertising purposes)
- Bu analiz raporunun hiç bir bölümü tek başına veya ayrı ayrı kullanılamaz. (This report with all parts is a whole, no part of this report can be used separately)
- Analiz sonuçları yukarıda belirtilen numune için geçerlidir. (Results of analysis belong to sample mentioned above)
- İziniz alınmadan raporlarımız çoğaltılamaz ve yayınlanamaz. İmzasız ve mühürsüz raporlar geçersizdir. (No copy or no publish without permission. The report without signature and seal are invalid)
- LOQ: Minimum Ölçüm Limiti (LOQ: Limit Of Quantitation)

## Açıklamalar (Description)

1: Bu analiz akreditasyon kapsamındadır. (This analyze covered by accreditation.)

Numune Kabul ve Raporlama Böl. Sorumlusu (V.)  
(Head of Sample Admision and Reporting Dept. (D.))  
Kimyager  
(Chemist)  
FERHAT ATMACA

Kimya Bölüm Sorumlusu  
(Head of Chemical Department)  
Kimyager  
(Chemist)  
AHMET TAŞKIRAN

Analitik Kimya Bölüm Sorumlusu  
(Head of Analytical Chemistry Department)  
Kimyager  
(Chemist)  
A. MULLA BİRER

23.01.2018  
Tasdik Olunur (Approved by)  
Laboratuvar Müdürü (Laboratory Manager)  
Gıda Yüksek Mühendisi (Food Engineer M.Sc.)  
ORHAN GÖZEN

Not: 5070 sayılı Elektronik İmza Kanunu gereği elektronik imza ile imzalanmıştır.

E-imzalı belge doğrulama linki: <https://trilms.sgs.com/Eimza/EimzaKontrol.aspx?ID=f3056a3a-03b5-4f6a-a6c0-6e3928e6390110>

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.mrl.com.tr/terms\\_and\\_conditions.htm](http://www.mrl.com.tr/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.mrl.com.tr/terms\\_e-document.htm](http://www.mrl.com.tr/terms_e-document.htm).

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 15 days only.

