



**T.C.**  
**TARIM ve ORMAN BAKANLIĞI**  
**MRL ÖZEL GIDA KONTROL LABORATUVARI**  
(TURKISH REPUBLIC MINISTRY OF AGRICULTURE AND FORESTRY  
MRL PRIVATE FOOD CONTROL LABORATORY)  
**MUAYENE VE ANALİZ RAPORU**  
(ANALYSIS REPORT)



Test  
TS EN ISO/IEC 17025  
AB-0184-T

AB-0184-T

11904029

01.04.2019

Tarih (Date) : 01.04.2019

Rapor No (Report No) : 11904029

**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) : 458 g  
**Ambalajı** (Package) : Kapaklı Cam Kavanoz (Covered Glass Jar)  
**Seri No / Parti No / Mühür No** (Serial No / Lot No / Seal No) : - / 29 T36 / -  
**Üretici-Firma Adı / Kodu** (Producer-Firm Name / Code) : - / -  
**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) : Betül Özbek  
**Numune Kod Numarası** (Sample Code Number) : 29  
**Analiz Başlama ve Bitiş Tarihi** (Date of Beginning and End of Analysis) : 29.03.2019 / 01.04.2019  
**Laboratuvara Geliş Şekli ve Tarihi** (Delivery of sample / Date of receipt) : Kargo (by Cargo) / 28.03.2019 19:00

Yapılan Analizler (Analyses)	Sonuç/Ölçüm Belirsizliği (Result/Uncertainty)	Ölçüm Limiti (LOQ)	Birim (Unit)	Geri Kazanım (Recovery)	Analiz Metodu (Analyses Method)
Nem(Rutubet) (Moisture) <sup>1</sup>	16.56		%		IHC, S.09-11
Diastaz Sayısı (Number Of Diastase) <sup>1</sup>	10.4				IHC, S.38-40
Elektriksel İletkenlik (Electrical Conductivity)	1.08		ms/cm		IHC, S.15-17
Prolin (Prolin) <sup>1</sup>	465.1		mg/kg		IHC, S.58-59
pH	4.58				IHC, S.20-22
Serbest Asitlik (Free Acidity)	27.5		meq/kg		IHC, S.20-22
HMF (Hydroxymethylfurfural) <sup>1</sup>	12.9	1.0	mg/kg		IHC, S.25-27
Delta C13 Değerleri ve C4 Şekeri (Delta C13 value and C4 Sugars) <sup>1</sup>					AOAC 998.12
C4 Şekerleri Oranı (C4 Sugars Ratio)	3.6		%		
C13 Değerleri Arasındaki Fark (Differences Between C13 Values)	-0.56		‰		
Delta C13 Protein (Delta C13 Proteins)	-25.11		‰		
Delta C13 Ham Bal (Delta C13 Raw Product)	-24.55		‰		
Şeker Kompozisyonu (Sugar Composition) <sup>1</sup>					AOAC 977.20
Fruktoz (Fructose)	35.5		g/100 g		
Glukoz (Glucose)	32.5		g/100 g		
Maltos (Maltose)	Tespit Edilemedi (Not Detected)	0.5	g/100 g		
Sakkaroz (Sucrose)	1.8	0.5	g/100 g		
Fruktoz/Glukoz (Fructose/Glucose)	1.09				
Fruktoz+Glukoz (Fructose+Glucose)	68.0		g/100 g		

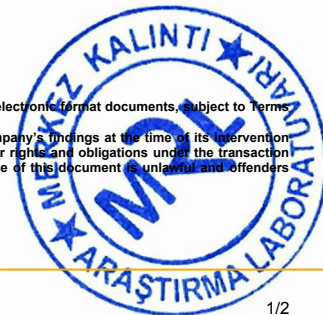
**Not: 5070 sayılı Elektronik İmza Kanunu gereği elektronik imza ile imzalanmıştır.**

**E-imzalı belge doğrulama linki: <https://trilms.sgs.com/Eimza/EimzaKontrol.aspx?ID=c98a5355-d066-46a3-8b15-04b02e573c9010>**

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) : 11904029

Tarih (Date) : 01.04.2019

Yapılan Analizler (Analyses)	Sonuç/Ölçüm Belirsizliği (Result/Uncertainty)	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 examinations and analysis.)  
Deneysel 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. Geçiçi, gezici tesis veya müşteri tesislerinde faaliyet alanı bulunmamaktadır. (MRL Central Research and Control Laboratory is accredited by TURKAK under registration number AB-0184-T for TS EN ISO/IEC 17025:2012 as testing laboratory. No activity is performed at sites away from permanent facility, in associated temporary or mobile facilities or at a customer's facility.)

## Notlar (Notes)

- Bu analiz raporu adli-idari işlemlerde ve reklam amacıyla kullanılamaz. İzniniz alınmadan raporlarımız çoğaltılamaz ve yayımlanamaz. İmzasız ve mühürsüz raporlar geçersizdir. (This report shall not be used in the executive-judicial processes and for advertising purposes. No copy or no publish without permission. The reports without signature and seal are invalid.)
- 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. Numune alım işlemi laboratuvarımız tarafından gerçekleştirilmediğinden, gönderilen numunenin partiyi/bütünü temsil etmesi sorumluluğu laboratuvarımıza ait değildir. (Results of analysis solely belong to sample mentioned above. Sampling is not performed by laboratory, representation responsibility of the sample is not undertaken.)
- Analiz raporunda yer alan numuneye ait bilgiler müşteri tarafından beyan edilmiştir. Bu bilgilerin doğruluğundan ve kullanımına bağlı oluşabilecek tüm kayıplardan/yasal zorunluluklardan laboratuvarımız sorumlu değildir. (All necessary sample information is transmitted by the client. Responsibility of losses/legal obligations that may arise due to the accuracy and use of this information is not undertaken.)
- LOQ: Minimum Ölçüm Limiti (LOQ: Limit Of Quantitation)

## Açıklamalar (Description)

<sup>1</sup>:Bu analiz akreditasyon kapsamındadır. (This analyze covered by accreditation.)

**Numune Kabul ve Raporlama Böl. Sorumlusu (V.)**  
(Head of Sample Admisson and Reporting Dept. (D.))  
**Gıda Mühendisi**  
(Food Engineer)  
**FATMA YILDIZ**

**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**

01.04.2019

**Tasdik Olunur** (Approved by)  
**Laboratuvar Müdürü** (Laboratory Manager)  
**Gıda Yüksek Mühendisi** (Food Engineer M.Sc.)  
**ÖRHAN 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=c98a5355-d066-46a3-8b15-04b02e573c9010>

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.

