

Certificate of Analysis

Butter CO2-se extract, type no. 096.004

Dist. Type

batch no. 051120, lab no. 18348

production: March 2015

retest: March 2020

raw material: Distillate of anhydrous milk fat (D/E about 1000/1 referred to AMF)

country of origin of product: Germany

D/E - ratio: 4,5 - 5,6 kg raw material yield 1 kg product.

Certification:



Analytical Check

feature	method	limits	value unit
Content of essential oil	21.006.01, Distillation, gravimetric	6 - 12	11,8 % (g/ 100g)
Fatty acid composition:			
Butyric Acid C4:0	21.156.02, GCFID	< 10	1,5 %
Caproic Acid C6:0	21.156.02, GCFID	n.s.	1,8 %
Caprylic Acid C8:0	21.156.02, GCFID	n.s.	2,2 %
Capric Acid C10:0	21.156.02, GCFID	n.s.	6,0 %
Lauric Acid C12:0	21.156.02, GCFID	n.s.	10,3 %
Myristic Acid C14:0	21.156.02, GCFID	10 - 25	15,3 %
Myristoleic Acid C14:1	21.156.02, GCFID	n.s.	1,5 %
Palmitic Acid C16:0	21.156.02, GCFID	15 -35	26,3 %
Palmitoleic Acid C16:1 w7	21.156.02, GCFID	n.s.	2,1 %
Stearic Acid C18:0	21.156.02, GCFID	n.s.	5,1 %
Oleic Acid C18:1 w9	21.156.02, GCFID	n.s.	20,9 %
Vaccenic Acid C18:1 w7	21.156.02, GCFID	n.s.	0,50 %
Linoleic Acid C18:2 w6	21.156.02, GCFID	n.s.	6,4 %
Fat numbers:			
Peroxide Value	21.015.02, DGF, Wheeler	< 5	1,8 meq O2/kg
Acid value	21.016.02, DGF	n.s.	67,4 mg KOH/g
Saponification value	21.017.01, DGF	n.s.	233 mg KOH/g
Ester value	= SV - AV	n.s.	166 mg KOH/g
Total 2-Alkanones in extract	GCMS, quantitative as Methyl decanoate	n.s.	4,1 %

n.s. = not specified

n.d. = not detected

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Total Lactones in extract	GCMS, quantitative as Methyl decanoate	n.s.	4,9	%
Total aldehydes in extract	GCMS, quantitative as Methyl decanoate	n.s.	0,03	%
Content of water	Karl Fischer Titr.	n.s.	0,92	%

n.s. = not specified n.d. = not detected

Storage conditions: Store in a cool, dry place!

The product meets specifications no. /66.464.01; date of analysis: 2015.03.06

The data in this report of analysis have been determined carefully and to the best of our knowledge. Depending on transport and storage conditions the indicated data can be subject to certain changes which are outside of our influence. Hence the report has not the meaning of a guaranty in the legal sense and does not dispense the customer from making his own quality control before using the product.