

MSL Food Group

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Analysis of Different Types of Wheat Flour				
Wheat Flour	Premium Quality	First Quality	Second Quality	Third Quality
Taste	Taste Matches	Test Matches	Taste Matches	Taste Matches
Odor	Without Impurities typical of Wheat Flour	Without Impurities typical of Wheat Flour	Without Impurities typical of Wheat Flour	Without Impurities typical of Wheat Flour
Color	White	White with Cream Shade	White with Cream Shade	Relatively dark
Moisture Content	Max 14%	Max 14%	Max 14%	Max 14%
Presence of Mineral Impurities	No	No	No	No
Metallomagnetic Impurity mg per 1kg of flour	0.03 mg	0.03 mg	0.04 mg	0.04 mg
Pest Infestation	No	No	No	No
Contamination by Pests	No	No	No	No
Ash Content on a dry matter &	0.46-0.55	0.60-0.75	0.75-1.25	1.250-1.450
White conventional units RE BPL device not less	54-62	46-53	12-36	<12
Gluten Index	Min 85	Min 80	Min 75	Min 70
Fineness of grinding Sieve residue #43	2.6	1.39	1.42	1.42
Falling number PE with no less	312	310	305	300
Mass Fraction of wet gluten at least %	32-30	28-26	24-22	20-18
Protein Content	11.7%	11.7%	11.74&	11.5%
ABSORPTION %	51	52	55	55
ENRICHMEN	no	no	no	no
FARINOGRAPH	68.0 sm3	67.0 sm3	67.2 sm3	67 sm3

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Spec of Wheat		
Weight	80 Kg / hl Min	
Protein content	14 % Min dry basis (Nx5,7)	
Moisture	12,5 % Max	
Vitreosity	85 / 90 %	
Broken grains	3,0 % Max	
Foreign kernels	1,5 to 2,0 % Max	
Soft wheat grains	2,5 to 3,0 % Max	
Insect damaged kernels	0,3 % Max	
Ergot	0,5 % Max	
Residues	International Standard	
Radioactivity	10 Bq - Kg - Measurement - CS 134 - CB 137 - RU 103	
Toxic remains of Pesticide	Should not exceed CODEX	
Gmo	Free	
Unnatural odour flavour and colour	NIL	
Packing	Bulk	
Origin	Europe and Russia	

200			
Feed Barley			
Grade	Human	Animal feed	
Origin	Europe	and Russia	
Test weight	Min 6	63 kgs, /hl	
Moisture	Max 14 %	max 17 %	
Crude proteins	Min 11 %	min 9 %	
Crude fiber	M	in 8%	
Crude fat	Mi	in 2 %	
Damaged grains	Max 2 %	max 3 %	
Impurities	Ma	ax 4 %	
Foreign matter	Ma	ax 1 %	

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Yellow Corn Grade		
Grade	Human	Animal feed
Origin	Europe	Russia
Moisture	14 % max	14,5 % max
Heath damage Kennels	0,5 % max	1 % max
Total damage Kennels	3,5 % max	7 % max
Protein	9 % min	8 % min
Ad mixture	2,5 % max	
Aflatoxin total 20 % max		% max
Hectolitres	68 kc min	
Weight of bushel/lbs	54 min	52 min
Radiation	None	
Poisonous seeds	2seeds/100 kg	

Yellow Soybeans		
Test weight lbs/bu	54 min per pound limit	
Protein	35 % min	
Oil content	18,5 % basis	
Moisture	14 % max	
Foreign matter	2,0 % max	
Splits	20,0 % max	
Soybean other color	2,0 % max	
Heat damage Kennels	0,5 % max	
Damaged Kennels	3,0 % max	
Radiation	Normal	
Crop	2004	
Packing	Bulk	
Origin	Europe and Russia	

Soybean Meal Specifications		
Soybean Meal	48 - Profat	
Protein	Min 48%	
Moisture	Max 12.5%	
Fiber	Max 5%	
Mineral Material	Max 6%	

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Soybeans specification OIL		
SCriteria	Specification	
Weevilled Seeds	0.05% Max	
Badly Damaged Beans	0.2	
Moisture Content	12% Max	
Purity	96% Max	

	Sunflower
CONTENT	100% REFINED SUNFLOWER OIL FREE OF RADIOACTIVITY - FREE COLESTEROL
Commodity	Refined sunflower oil
Specific density (at 20C)	0,918 -0,920
Refractive index (at 40C)	1.467 -1.469
Transparency of oil, Max	10 FEM
Acidity MG KOH % GM OIL MAX	0,1 -0,6
Peroxide value MMOL/KG OIL MAX	0,1 -0,7
Color value iodine, MG MAX	4
Iodine value (WIJS)	110 - 144
Moisture & Volatile %MAX	0,06
Saponification value, MG KOH/GM OIL	188 - 194
Phosphorus containing matter (P205)	Negative
Non-Fatty impurities, % MAX	Negative
Coloring materials, allowed to ad	According to the International Standards
Artificial flavors, allowed to ad	According to the International Standards
Anti-Oxidants	200MG/KG BUT GALATE NOT MORE THAN
1260	100MG/KG
Preservative agent	According to the International Standards
Anti-foaming Anti-foaming	10MG/KG
Anti-crystallization	1250MG/KG
Soap content	0,005 MAX
In soluble impurities % MASS	0,5 MAX
Energy (min)	3397kj/826 KCAL
Unsaturated Fat	92 g
Saturated Fat	10g
Mono in Saturated	27g
Poly in Saturated	55g
Chalacteral	0
Cholesterol	0
Sodium	0
Protein Vitamin F	
Vitamin E	55mg- 45% VRN

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Crude Sunflower Oil Specifications & Technical Information (A)

Product	Spain
Product code	OIL-CK-SUN-HOCP

Description:

A virgin liquid oil derived from a specific variety of sunflowers. Monounsaturated fatty acids for nutritional products. The oil is virgin and pressed under a cold pressing process. Oil temperature is a maximum of >36 degrees C at the time of oil extraction

Typical Analysis		
Free Fatty Acids	0.2 - 0.4	
Peroxide Value (meq/kg)	10 - 30	
Color	Bright Gold	
Moisture (%)	0.10 max	
Flavor / Odor	Typical, bland	
Stearic Acid (C18:0) (%)	3.0 - 6.0	
Oleic Acid (C18:1) (%)	78.0 - 82.0	
Linoleic Acid (C18:2) (%)	8.0 - 15.0	
Linolenic Acid (18:3) (%)	0.0 - 0.2	

All results at time of manufacture

Origin	The sunflower crop is grown and processed (crushed) in Spain
GM Status	This product is GE FREE and does not require Genetic Modification labelling

Nutritional Data (Average Quantity Per 100g)

Energy	3696 kJ.	
Protein	Og.	
Fat – Total	99.9g.	
Fat – Saturated	6g.	
Fat – Monounsaturated	82g.	
Fat – Polyunsaturated	12g.	
Fat – Trans	Og.	
Carbohydrate – Total	Og.	
Carbohydrate – Sugars	Og.	
Sodium	Omg.	
Packaging	201 Drum, 2001 Barrel, 1,000L pod or Bulk, Flexi-container	
Storage	Clean, dry areas away from heat and odorous products	
Shelf Life	Dependent on packaging	
– Bulk – 12 months from date of manufacture under ideal storage conditions		
− 1,000L − 12 months from date of manufacture under ideal storage conditions		

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Specifications Crude Sunflower Oil (B)		
Appearance	Normal	
Odour & Taste	Characteristic	
Raw oil Colour in 1/2" Cell (Y+5R)	15.0 Units	
Bleached oil Colour in 1/2" Cell (Y+5R)	2.5 Units	
Bleach ability % (1.5% Bleaching earth)	58.0 % (Min)	
FFA (as Oleic)	1.50 % (Max)	
Wax / Moisture and Volatiles / sediments	0.50 % (Max)	
Iodine Value	100 - 140	
RI at 40 °C	1.4640 - 1.4800	
SV	188 – 194	
Unsap	1.50 % (Max)	
Soap content	Nil	
Fatty acid composition	To Conform to pure Sunflower oil (by GLC)	
Test for of Argemone oil	Negative	
Test for Mineral oil	Negative	
Test for Castor oil	Negative	
Test for Animal Fat	Negative	
Gums (as lecithin)	0.20%(max)	
Packaging	201 Drum, 2001 Barrel, 1,000L pod or Bulk, Flexi-container	
Storage	Clean, dry areas away from heat and odorous products	
Shelf Life	Dependent on packaging	
Bulk – 12 months from date of manufacture under ideal storage conditions		
- 1,000L - 12 months from date of manufacture under ideal storage conditions		

Specification of Soybean Meal		
Soybean Meal	(Animal Consumption)	
Brand	KGCPL	
Protein	46%	
Fat	1.5% Max	
Fiber	6% Max	
Moisture	12% Max	
Sand Silica	2.5% Max	
Packing	50kg PP Bag	

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Specification of De-Oiled Rice Bran				
Grade	Crude Protein	Moisture	Crude Fiber	ASH
I Grade	>15%	<10%	<10%	<10%
II Grade	>13%	<10%	<16%	<11%
III Grade	>10%	<11%	<20%	<12%

Identity Characteristics for Palm Oil		
Item No.	Identity Characteristics	Observed min. to max.
(i)	Apparent density, g/ml at 50°C	0.8889 to 0.8896
(ii)	Refractive index no. 50°C	1.4521 to 1.4541
(iii)	Saponification value, mgKOH/g oil	194 to 205
(iv)	Unsaponifiable matter, %	0.19 to 0.44
(v)	Fatty acid composition (wt% as methyl ester	s)
CO.	C12:0	0.1 to 0.5
	C14:0	0.9 to 1.5
	C16:0	39.2 to 45.8
	C16:1	0 to 0.4
	C18:0	3.7 to 5.4
	C18:1	37.4 to 44.1
	C18:2	8.7 to 12.5
	C18:3	0 to 0.6
	C20:0	0 to 0.5
(vi)	iodine Value (Wij's)	50.4 to 53.7
(vii)	Slip Melting Point, °C	33.8 to 39.2
(viii)	Total carotenoids (as B-carotene), mg/kg	474 to 689

Specification of Sunflower Seeds:		
Crop	Current Year	
Grade	Premium	
Purity	99% Min.	
Moisture	7.5% Max.	
Admixture	1% Max.	
Imperfect	1% Max.	
Package	20/25 Kg Craft Paper bags or Plastic Woven Bags	

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Specifications of White Refined Sugar – ICUMSA 45		
ICUMSA	45 RBU ICUMSA Attenuation index units Method # 10-1978	
Ash content	0.04% Maximum by Weight	
Moisture	0.04% Maximum by Weight	
Magnetic	Particles mg/kg 4	
Solubility	100% DRY & Free Flowing	
Granulation	Fine Standard	
Polarization	99.80° Minimum	
Max AS	1 P.P.M.	
Max OS	2 P.P.M.	
Max CU	3 P.P.M.	
Colour	Sparkling White	
Sediments	NONE	
Radiation	Normal w/o presence of cesium or iodine SO2: Certified	
SO2	70 MG/KG MAXIMUM	
Substance	Solid, Crystal	
Smell	Free of any Smell	

Specifications of White Cane Sugar – ICUMSA 100		
ICUMSA		100 RBU
Ash content		0.15% Max
Moisture		0.10% Max
Solubility		100% Free Flowing
Granulation		Fine
Polarization		99.50% min
Colour		White
Radiation		Normal w/o presence of cesium or iodine SO2: Certified

Specifications of White Cane Sugar – ICUMSA 150		
ICUMSA	150 RBU	
Ash content	0.10% MAXIMUM	
Moisture	0.10% MAXIMUM	
Solubility	100% DRY AND FREE FLOWING	
Granulation	FINE	
Polarization	99.50% MINIMUM	
Colour	SPARKLING WHITE	
Sediments	NONE	
Radiation	NORMAL W/O PRESENCE OF CESIUM OR IODINE	
SO2	70 MG/KG MAXIMUM	
Substance	SOLID, CRYSTAL	
Smell	FREE OF ANY ODOR	

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Specifications of ICUMSA 600-1200 Brown Sugar		
Refined Standards to Icumsa	600 - 1200	
Polarity	at 20C 97.8C to 99.2C	
Sulphate content	0.15% max.	
Ash Content	0.15% max. weight	
Moisture	0.15% max.	
Solubility	97% Dry & Free Flowing	
Radiation	Normal w/o presence of caesium or iodine	
Colour	Golden Brown	
Granulation	1.00 - 1.5am/mm	
Reducing Sugar	0.05% Max by weight	
Substance	Solid Crystal	
do		

Beet Sugar		
Color	white at 20° C	
Polarization	99.8 % min.	
Ash content	0.08 % max.	
Moisture	0.06 %	
Reducing Sugar	0.05% maximum by weight	
Pb content	maximum 1ppm	
As content	maximum 1ppm	
Cu content	maximum 3ppm	
Hpn staph aureus	nil (1000) mc	
Solubility	100 % dry and free flowing	
Sediments	none	
Smell	free of any smell	
Granulation	medium to fine	
Magnetic particles	4 mg / kg or less	
So2 content	20 mg / kg maximum	
Radiation	normal	
Moisture	0.06% maximum	
Substance	solid crystal	

Specification of Millet		
Moisture	12% (Max.)	
Purity	99% (Min.)	
Foreign Matter	1% (Max.)	
Packing	In Strong PP Bags 25/50 Kg Packing Net.	
Usage	Human Consumption, Animal & Bird Feed	

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Beet Sugar ICUMSA-45		
POLARIZATION	99.80 Degrees min.	
ASH CONTENT	0.04 Max.	
ICUMSA	45 RBU	
SOLUBILITY	100% Dry and Free Flowing	
COLOR	Sparkling White. Maximum 45 Icumsa attenuation index units	
RADIATION	Within internationally accepted limits.	
GRANULATION	Fine to Medium	
MOISTURE	0.4% Max.	
MAGNETIC PARTICLES	4Mp/k	
SO2	70 Mg/k	
ASH BY ELECTRICAL	0.04% Max. [on dry weight basis]	
CONDUCTIVITY	- , G 1	
SULPHUR DIOXIDE	20 mg/kg Min.	
SEDIMENTS	None.	
SMELL	Free of any Smell	

Extra Virgin Olive Oil						
Nutrition Information	(100 g)					
Energy	3800kj/900 kcal					
Total Fats, of which	100 g.					
Saturated Fat	14 g.					
Polyunsaturated Fat	9 g.					
Monounsaturated Fat	77 g.					
Trans Fat	0 g.					
Carbohydrate, of which	0g.					
Sugars	Og.					
Protein	Og.					
Salt	Og.					
Vitamin E	22 mg/ 220% VRN (Nutrient Reference Value)					
Ingredients	100% Filtered Spanish Extra Virgin Olive Oil					
Origin of the ingredients	Ripe olives of varieties picul, cornicabra, verdial and arbequina, harvested between November and January					
Median of Fruity	max. 5					
Free acidity	% m/m					
expressed in oleic acid	$\leq 0.20 \leq 0.8$					
P	Peroxide value in milligram					
peroxide oxygen per kg/oil	$4,3 \le 20$					
Absorbency in ultra-violet	$(K1\%)$ - 270 nm $0.21 \le 0.22$					
Moisture and volatile matter	$(\%) 0.05 \le 0.2$					
Insoluble impurities (%) TRACES	≤0,1					



Olive Oil					
Nutrition Information	(100 g)				
Energy	3404kj/828 kcal				
Total Fats, of which	92 g.				
Saturated Fat	13 g.				
Carbohydrate, of which	Og.				
Sugars	Og.				
Protein	Og.				
Salt	0g				
Vitamin E	18,16 mg/ 151% VRN (Nutrient Reference Value)				
Ingredients	Refined Pomace Olive Oil (99%) and Extra Virgin Olive Oil (1%)				
Acidity	0.7° (% oleic acid)				
Peroxide Index	$\leq 15 \text{ (meq O2/kg)}$ $K270 \leq 1.5$				
retoxide flidex	K232 Delta $K \le 0.18$				

Soybean Oil					
INGREDIENT	Soybean Oil				
APPEARANCE, FLAVOR & COLOR	Bland flavour with no odor, colour (Lovibond) Red = 2.0 Max.				
	AVERAGE ANALYSIS				
IODINE VALUE	118 – 135				
PEROXIDE VALUE	Max. 1.0				
ACID VALUE	Max. 0.10%				
MOISTURE	Max. 0.10%				
SMOKE POINT	440°F – 460°F				
FLASH POINT	600°F				
	FATTY ACID COMPOSITION:				
PALMITIC ADIC	C 16:0 8.0 – 14.0				
STEARIC ACID	C 18:0 3.0 – 5.0				
OLEIC ACID	C 18:1 20.0 – 25.0				
LINOLEIC ACID	C 18:2 50.0 – 57.0				
LINOLENIC ACID	C 18:3 6.0 – 8.0				
STORAGE	Store at 65° – 75° F in a dry and odor-free environment. The shelf life is 2 years from date of manufacture in unopened containers.				
PACKAGING	Drums and Totes and in bottle packing				



	Peas
Moisture	14% max.
Extraneous matter	0.1% max.
Broken splits	10% max. (pea fragments passing through a sieve with circular mesh 5mm in diameter)
Peas of different colour	Max. 1.5% in yellow peas, max. 15% in green peas
Heated grains	0.05% max.
Discoloured seeds	1.5% max.
Weevilled / holed / insect damaged grain	1% max.
 Microbiology Salmonella Aflatoxin total Aflatoxin B1 Ochratoxin total 	 Absent in 25g sample 4 ppb max. 2 ppb max (tested ONLY if total Aflatoxin > 4 ppb) 5 ppb max.
Presence of Genetically Modified Organisms (GMO)	Nil
Radioactive residues/elements	Nil
Cooking time	45 minutes without prior pre-soaking

Specification of Wheat Bran								
Protein				15% Max		L	12% Max	
Moisture				14% Max			14% Max	
Fibre				12% Min			12% Min	
Acid Insolub	le Ash	Υ		0.5% Max			0.5% Max	

Specifications Sunflower Meal				
%	Minimum Crude Protein	28		
%	Fat	10.5°		
%	Crude Fiber	23.9		
%	Acid Detergent Fiber	30.15		

Specification of Wheat Bran					
TYPE	FINE BRAN				
Protein	15% Max	12% Max			
Moisture	14% Max	14% Max			
Fibre	12% Min	12% Min			
Acid Insoluble Ash	0.5% Max	0.5% Max			
Packing	Multi wall plain new PP bags of 25 kgs or 50 Kgs				
Container Loading	18 MT per 20 FT				





Whole and Split Red Lentils				
Size	Min. 4 – 6 mm			
Moisture	14% max.			
Visually rotten	Nil			
Decayed kernels	4% max.			
White lentils in red lentils	2% max.			
Presence of Datura seeds and other toxic grains (Crotalaria spp., Agrostemma githago L., Ricinus communis L.) or traces of tropane alkaloids	Nil			
Weed, fungal/mould growth or yeast (visual inspection)	Nil			
Total Foreign matter (including other seeds, stones and dust)	1% max.			
Weevilled / holed / insect damaged grain	1% max.			
Vetches	0.1% max.			
Live insects	Nil			
Dead insects, including parts, stages and waste	2 max. per kg			
 Microbiology Salmonella Aflatoxin total Aflatoxin B1 Ochratoxin total 	 Absent in 25g sample 4 ppb max. 2 ppb max (tested ONLY if total Aflatoxin > 4 ppb) 5 ppb max. 			
Heavy metals Lead Cadmium	0.2 ppm max.0.1 ppm max.			
Presence of Genetically Modified Organisms (GMO)	Nil Sol Control			
Radioactive residues/elements	Nil			
Cooking time	30 minutes without prior pre-soaking			



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Refining Fatty Acid

Product description:

Fatty acid is produced by hydrolysis of soap from the refining of vegetable oils and vegetable fats, emulsified sludge fat from finished products, by separating oil from oil sludge from storage tanks.

The use of:

The fatty acid product is used in the chemical industry, for soaps and cosmetics. Fatty acid also represents biomass or raw material from which bio liquid is produced.

Standards:

- Public journal RS no. 36/2009, 88/2010, 92/2011, 93/2012 and 25/2015
- Public Journal RS no. 16/2016, 6/2017, 117/2017, 44/2018 7/2019,6/2021 93/2019,6/2021 and 126/2021
- Public journal RS no.105/2013,52/2017 and 21/2019
- Public Journal RS no 22/2020
- Public Journal RS no. 100/2011
- Public journal RS no 36/2009 i 88/2010, 14/2016 and 95/2018
- Public journal RS no. 56/2010 i 93/2019 and 39/2021
- Public Journal RS no.36/2009 i 95/2018
- Public journal RS no.101/2005, 91/2015 and 113/2017

0	No	CHARACTERISTICS	UNIT	REQUIRED	ALLOWED
U	NO	CHARACTERISTICS	MEASURES	VALUE	EXEPTION
A		PHYSICAL/CHEMICAL			
	1.	Color		Dark brown	
	2.	Total fat/soapy	%	97,5	95/97,5
	3.	Water content	%	0	0/2,0
No	4.	Accompanying matter	%	0,2 0 0	0/0,5
	5.	Not saponifiable	%	1 () (0/3,0
\ \	6.	Fatty acid content, as oleic acids	%	min 40	
\	7.	iodine number (by Hanush)	gJ2/100g	min 110	110/135
	8.	Mineral test		negative	00
					000
В		PACKAGING	In bulk tankers	or wagon tanks	(000)
C		MARKING	According to th	e manufacturer's	declaration
D		STORAGE	In a tank at a ter	mperature of 40°	C
E		SHELF LIFE	Unlimited		A STATE OF THE PARTY OF THE PAR
F		CERTIFICATES	Certificate of qu	ality and health	



Additional country-specific specifications

Chick Peas (Syria, Jordan, Iraq)				
Size	Min. 6 – 8 mm			
Moisture	14% max.			
Decayed kernels	Nil			
Shrivelled grains	1% max.			
Undersized grains & Total defects	7% max			
Different colour or discoloured (% of coloured and green kernels)	3% max.			
Weevilled / holed / insect damaged grain	0.5% max.			
Weed, fungal/mould growth or yeast (visual inspection)	Nil			
Broken splits	1% max. (smaller than 70% of average size)			
Presence of Datura seeds and other toxic grains (Crotolaria spp., Agrostemma githago L., Ricinus communis L.) or traces of tropane alkaloids	Nil			
Live insects	Nil A S			
Dead insects, including parts, stages and waste	2 max. per kg			
Foreign matter and impurities	1% max.			
Stones and dust	1% max.			
Microbiology • Salmonella • Aflatoxin total • Aflatoxin B1 • Ochratoxin total	 Absent in 25g sample 4 ppb max. 2 ppb max (tested ONLY if total Aflatoxin > 4 ppb) 5 ppb max. 			
Heavy metals • Lead • Cadmium	• 0.2 ppm max. • 0.1 ppm max.			
Presence of Genetically Modified Organisms (GMO)	Nil			
Radioactive residues/elements	Nil			
Cooking time	45 minutes without prior pre-soaking			
Production	Crop year to be indicated			
Brand	To be indicated			
Origin	To be indicated			

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Whole Red Lentils (Syria, Jordan)					
Peeled, split and broken		3.5% max.			
Discoloured grains		0.1% max.			
Total damaged grain		3.5% max.			
Inorganic material		0.2% max.			

Red Split Lentils (Syria, Jordan, Iraq)					
Broken in split lentils (smaller than 75% avera	ige size)	0.5% maximum			
Other variety		2% max.			
Unhusked grain		1% max.			
Discoloured grains		1% max.			
Total damaged grain		2% maximum			
Chalky grains		1% max.			

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