

## Sodium Caseinate

– PRODUCT SPECIFICATION –

### Product Description

*Arrabawn Sodium Caseinate* is a pure milk protein obtained from fresh pasteurised skim milk by acid precipitation of the casein, reacting with a neutralizing agent and drying.

### Ingredients

Milk Protein (Sodium Caseinate)

### Origins

All Arrabawn Co-op's dairy powders are manufactured in our production plant, Nenagh, Co. Tipperary, Ireland. All milk used in the manufacture of Arrabawn Co-op's dairy powders is cow's milk which is produced in the Island of Ireland (IOI) and UK.

### Genetically Modified Organisms

*Sodium Caseinate* is free from GMO's and any ingredients containing GMO's.

Chemical Composition	Typical	Specification	Method
Protein (dry basis)	94.0%	90.0% min	ISO 8968-3
Moisture	5.0%	6.0% max	ISO 5537
Fat	1.0%	1.5% max	ISO 5543
Ash	4.0%		ADPI
Lactose	0.1%	0.2% max	ADPI
Scorched particles	Disc A	Disc B max	ADPI
pH	6.6	6.6±0.3	IDF 115A:1979

### Physical and Organoleptic

Appearance	Homogeneous, free flowing powder
Colour	Light cream
Odour/Taste	Neutral
Bulk density (tapped)	120-150 mL/100g (0.65-0.83 g/mL)

Microbiological Quality	Maximum Limits	Method
Standard Plate Count (3 days at 30 °C)	< 20,000/g	ISO 4833
Coliform (/0.1g)	Neg	ISO 4831/ISO 4832
E.coli (/0.1g)	Neg	ISO 11866-1
Yeast & Mould (/g)	< 100	ISO 6611
Salmonella (/25g)	Neg.	ISO 6579/ELISA
Enterobacteriaceae	< 10 cfu/g	ISO 21528-2
Coagulase-positive Staphylococci	< 10 cfu/g	ISO 6888-1

### NUTRITION (Typical Values):

Parameter	Unit	Typical Value per 100 g
Energy	kcal/kJ	357/1494
Protein	g	90
Fat	g	1.2

<i>of which Saturates</i>	g	0.8
<i>of which Monounsaturates</i>	g	0.2
<i>of which Polyunsaturates</i>	g	Trace
Trans Fat	g	Trace
Carbohydrate	g	0.2
<i>of which Lactose</i>	g	0.2
Dietary Fibre	g	0
Ash	g	4.3
Sodium*	mg	1400
Calcium	mg	50
Potassium	mg	9
Magnesium	mg	4
Phosphorous	mg	800
Chloride	mg	1600

\* Salt content: Sodium Carbonate added as part of process to neutralise Acid casein.

## Toxicology

### Heavy Metals

	Maximum Limits	EU Legislation
Lead	0.75mg/Kg	EC No 2203/2015
Mercury	0.10mg/Kg	n/a
Cadmium	0.2mg/Kg	n/a
Dioxins	3.0pg/g fat	EC No 1881/2006
Dioxins and dioxin like PCBs	6.0pg/g fat	EC No 1881/2006

### Pesticide Residues

	Maximum Limits	EU Legislation
Organochlorine	0.05mg/Kg	EC No 396/2005
Organophosphorous	0.05mg/Kg	EC No 396/2005

### Mycotoxins

	Maximum Limits	EU Legislation
Aflatoxin M1	0.05 ug/kg	EC No 1881/2006

## Radiation

### Radionuclide

	Maximum Limits	EU Legislation
Radionuclide	370Bq/Kg	EC 733/2008

*Sodium Caseinate* conforms with EU legislation enforced with regards to pesticides, heavy metals, mycotoxins & Radionuclide.

## Metal Detection

After the bag is sealed on the Packer, the bag passes through a metal detector which stops the line and alarms if metal is detected. The specification for the test wands used to ensure the detector is operating correctly is.

**Metal Detector Sensitivity:**
**Bagging Line 1:**

 Ferrous 2.0mm,  
 Non-Ferrous 2.5mm,  
 Stainless Steel 2.5mm.

**Bagging Line 2:**

 Ferrous 2.0mm,  
 Non-Ferrous 2.5mm,  
 Stainless Steel 2.5mm.

**Minibulk Line**

 Ferrous 2.0mm,  
 Non-Ferrous 2.5mm,  
 Stainless Steel 2.5mm.

**Allergen Information**

Milk is the only allergen on site, As milk is the raw material for all Arrabawn products – our products are not suitable for consumption by anyone with a milk allergen.

Nut Policy: Sodium Caseinate is free from nuts. Arrabawn Co-op does not handle or use any form of nuts in our production plant, Nenagh, Co. Tipperary, Ireland. Also the Canteen does not stock/sell any products, which contain nuts wholly or as an ingredient.

**Dietary Suitability**

	Suitable	Unsuitable
Vegetarians	Yes	
Ova-Lacto Vegetarians	Yes	
Vegans		Yes
Coeliacs	Yes	
Kosher Approved	Yes	
Halal approved	Yes	

**Packaging**

Available in 25 Kgs net weight Kraft paper bags with a polyethylene liner or 1mt big bags.

	25kgs Bags	Minibulk Bags
Bag material	Paper bag with polyethylene liner	100% virgin polypropylene & LDPE inner liners
Bag Size	25kg	1000kgs
Number of bags per layer/layers per pallet	5 bags per layer, 8 layers per pallet	1 bag/pallet
Number of bags per pallet	40 bags	1 bag/pallet
Pallet type	Timber	Timber

The poly liner used in these bags conforms to the current food contact legislation - Directive 2002/72/EC.

## Labelling

After the bag is sealing on the Bagging Line, the bag is directly coded on the base of the bag using an Inkjet coding system. The code is made up of the product name, a number identifying the packing day of the year (125 is the 125th day of the year), a letter identifying the year (2012 = N), and a consecutive bag number. 1069 is a unique Health Number to Arrabawn Co-Op and is pre-printed on all bags.

## Shelf Life & Storage

Transport Conditions	Ambient
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Storage Condition/Temperature (closed	Ambient, Clean, dry Environment
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Shelf-Life (closed bag)	2 years from date of manufacture
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