## RAW SAUSAGE & RAW CURED MEAT PRODUCTS

PRODUCT CATALOGUE



#### PERFORMANCE INSIDE



### **MATES FOOD INDONESIA**

Your Trusted Friend for Food Ingredients and Products

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# RAW SAUSAGE & RAW CURED MEAT PRODUCTS

Naturally ripened raw sausages and raw cured meat products that are fermented over long periods of time are among the most sophisticated meat products around. Statistics published by the German Butchers' Association show that the average German eats five kilograms of raw sausage a year – and prefers salami, mettwurst and teewurst.

Firm or spreadable, cold-smoked or air-dried, with or without edible mould – RAPS develops all solutions needed for every end product. Originally created because of their long shelf-life, these products are today enjoyed primarily for their fine flavour and aroma. Production methods have been refined over time, but raw sausage production remains the ultimate discipline of the butcher's trade. What matters is the balance between raw materials, additives and the maturing process – we at RAPS take care of the rest.

### TRADITION AND TECHNOLOGY FOR THE ULTIMATE QUALITY

Modern raw sausage and raw cured meat production is based on traditional craftsmanship and sophisticated technology. Our years of expertise in raw sausage production has enabled us to develop a wide range of products for making raw sausages. We constantly evolve and are always developing new raw sausage innovations. From specially designed starter cultures which we purchase from our own technology development centre in Austria, to exceptional seasoning blends, to high-quality sausage casings that give the product its final shape – this comprehensive product catalogue focusing on raw sausage and raw cured meat products contains everything you need to make manufacturing these meat products easy and safe, helping you to create flagship products that look, taste and smell superb.



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Seasoning

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# RAWSAUSAGE

#### Seasoning

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- Starter cultures
- Technical aids
- Sausage casings

# SEASONING

Firm, spreadable or thin-calibre: our wide range of seasoning styles encompasses perfect additions to every variety of raw sausages. We only use the very best raw materials for manufacturing our seasoning; it's the only way to achieve quality you can taste.

#### A QUESTION OF FLAVOUR

The primary difference between the many and various regional raw sausages is the flavour. You can give any kind of raw sausage an unmistakable touch using our wide range of seasoning styles. Our seasonings contain all of the necessary sugars and GDL you need, which guarantee a reliable, efficient production process.

Our seasonings contain only the additives you actually need, which means no unnecessary allergens and often no flavour enhancers. Furthermore, we only ever use the very best quality raw materials and the high standard of our seasonings will be reflected in your end-product. RAPS has an appropriate seasoning in its range for every application and every regional preference, and also covers all of the common production processes.

#### BENEFITS

- · Custom solutions for diverse products
- · Cultures to suit every seasoning
- · Most products without declarable EU allergens
- Rounded, balanced flavour







## RAW SAUSAGE FIRM

Firm raw sausages like salami and cervelat are among the most popular classics, every slice of which is a delight with its hearty flavour, accentuated perfectly by our seasoning.

ITEM	PRODUCT NAME

INGREDIENTS FLAVOUR

COLOUR DOSAGE PACK SIZE CULTURE\* E-NUMBERS

### **SEASONINGS WITHOUT GDL**

The seasonings already contain sugars. Starter cultures and nitrite curing salt need to be added for the maturing process.

1705362-001	MIX FOR CHORIZO	Paprika, chili, pepper, garlic, herbs	red	23g/kg	bag, 1 kg	Plus	E 300	<b>A</b> G
1091041-001	PURELINE SALAMI BASIC WITHOUT GDL	Pepper	beige	9g/kg	bag, 1 kg	Plus BIOSTART BIOSTART	E 301	<b>A</b> G
1000111-001	ROTBLOCK M WITHOUT GDL Contains: MUSTARD / LACTOSE	Pepper, coriander	beige	10g/kg	bag, 1kg	Plus BIOSTART BOSTART	E 301, E 621	
1000113-003	ROTBLOCK SUPER Contains: LACTOSE	Pepper, coriander	beige	10g/kg	bag, 1kg	Plus BIOSTART Sprint BIOSTART	E 301, E 621	
1038961-002	SALAMI ITALIA CL	Pepper, parsnip, typically strong Italian flavouring	yellow	10g/kg	bag, 1kg	Plus BIOSTART BOSTART	E 301	<b>A</b> G
1000110-001	SALAMI ITALIA WITHOUT GDL Contains: MUSTARD	Pepper, typically strong Italian flavouring	yellow- ish	12g/kg	bag, 1 kg	Plus BIOSTART Sprint BIOSTART	E 301, E 621	
1038960-001	SALAMI MILD CL	Pepper, onion, garlic	beige	8g/kg	bag, 1kg	Plus BIOSTART Sprint BIOSTART	E 301	<b>A</b> G
1000112-001	SALAMI MILD FRENCH STYLE WITHOUT GDL Contains: MUSTARD	Pepper, mild sea- soning	yellow- ish	12 g / kg	bag, 1kg	Plus BIOSTART Sprint BIOSTART	E 301, E 621	
1000115-002	SALAMI MILD WITHOUT GDL	Pepper, juniper, rum	beige	10g/kg	bag, 1kg		E 300, E 301	80
1000117-003	SALAMI QUICK WITHOUT GDL	Pepper, onion	beige	10g/kg	bag, 1kg	Sprint	E 300, E 301, E 621	۵

ITEM	PRODUCT NAME	INGREDIENTS FLAVOUR	COLOUR	DOSAGE	PACK SIZE	CULTURE*	E-NUMBERS	
1038576-001	SALAMI SPRINT CL	Pepper, coriander	beige	10g/kg	bag, 1 kg	Sprint	E 301	<b>A G</b>
1000120-003	SALAMI SPRINT WITHOUT GDL	Pepper, coriander	beige	10g/kg	bag, 1 kg	Sprint ROSTART	E 301, E 621	
1701586-001	SALAMI SUPER CL	Pepper, coriander	beige	10g/kg	bag, 1 kg	Plus BOSTART BOSTART	E 301	<b>A G</b>
1000126-002	SALAMI SUPER WITHOUT GDL Contains: LACTOSE	Pepper, garlic	beige	12g/kg	bag, 1 kg	Sprint	E 301, E 621	
1000152-002	SALAMI WESTA-MIX WITHOUT GDL Contains: LACTOSE	Pepper, juniper, rum	beige	12g/kg	bag, 1 kg	Plus BOSTART BOSTART	E 301, E 621	

SEASON	INGS WITH GDL	Maturing is done using <b>glucono-delta-lactone</b> . To achieve the flavour typical of raw sausage, we also recommend using <b>slow-maturing starter cultures</b> in addition to the GDL maturing process.						we also
1000102-003	SUPERQUICK CW WITH GDL	Pepper, juniper, rum	beige	12g/kg	bag, 1kg	Plus	E 300, E 575	<b>A</b> G
1000100-003	SUPERQUICK GOLD WITH GDL	Pepper, nutmeg	beige	12g/kg	bag, 1 kg	Plus	E 300, E 575	<b>A G</b>
1000118-002	SUPERQUICK ITALIA WITH GDL	Pepper, typically strong Italian flavouring	beige	14g/kg	bag, 1 kg	Plus	E 301, E 575	<b>A G</b>
1000109-007	SUPERQUICK TOP WITH GDL	Pepper, nutmeg, onion	beige	15g/kg	bag, 1 kg	Plus	E 300, E 575, E 621	

#### INFORMATION

In firm sausages, particles of meat and fatty tissues are bound together by dissolved meat protein in the course of maturing. When the protein is dissolved, a film is created which is denatured as a result of acidification (≥ pH 5.3), making the sausage firm for slicing.

### RAW SAUSAGE FIRM



## RAW SAUSAGE SPREADABLE

Spreadable raw sausage is available in an enormous range of varieties ranging from coarse to fine. RAPS seasonings give each one of them its characteristic flavour.

		FLAVOUR		2007102				
COARSE WITHOU	METTWURST T GDL	The seasonings alrea maturing process.	ady contain <b>s</b>	ugars. Start	ter cultures and	d nitrite curing	<b>g salt</b> need to be ad	ded for the
1000186-002	COARSE SPREADABLE METTWURST CL	Pepper, nutmeg, coriander, caraway	reddish	10g/kg	bag, 1 kg	Classic	E 300, E 301	<b>A</b> G
1000166-003	METT-MAX WITHOUT GDL	Pepper, caraway, paprika	beige	9g/kg	bag, 1 kg	Classic	E 300, E 301, E 621, E 627, E 631	۵
1000175-001	PRIMAMETT WITHOUT GDL	Pepper, ginger, nutmeg, caraway, onion	beige	8g/kg	bag, 1 kg	Classic	E 301, E 621	۵
1000195-003	SPREADABLE METTWURST SUPERSOFT WITHOUT GDL Contains: MUSTARD	Pepper, caraway, nutmeg, smoky	brownish	12g/kg	bag, 1.2 kg	Classic	E 300, E 301, E 415, E 621	

INGREDIENTS

#### **ONION METTWURST** WITHOUT GDL

ITEM

PRODUCT NAME

The seasonings already contain sugars. Starter cultures and nitrite curing salt need to be added for the maturing process.

COLOUR DOSAGE PACK SIZE CULTURE\* E-NUMBERS

1000174-005	FRESH ONION SAUSAGE TOP WITHOUT GDL	Onion, pepper, caraway	beige	12g/kg	bag, 1 kg	Classic	E 300, E 301, E 621, E 627, E 631	8
1091042-001	PURELINE ONION SAUSAGE WITHOUT GDL	Onion, pepper	reddish	11g/kg	bag, 1 kg	Classic	E 300	<b>A</b> G
1000199-005	ONION SAUSAGE SUPERSOFT WITHOUT GDL Contains: MUSTARD	Onion, pepper, coriander	orange / red	14g/kg	bag, 1 kg	Classic	E 300, E 301, E 415, E 621, E 627, E 631	
1004192-003	ONION SAUSAGE SUPERSOFT WITHOUT GDL Special package incl. starter culture. Contains: MUSTARD	Onion, pepper, coriander	orange / red	14g/kg	bag, 1 kg	Sprint	E 300, E 301, E 415, E 621, E 627, E 631	

\* Our recommended starter culture for each seasoning. Other combinations are also possible – ask your RAPS consultant if you have any questions.

ITEM	PRODUCT NAME	INGREDIENTS FLAVOUR	COLOUR	DOSAGE	PACK SIZE	CULTURE*	E-NUMBERS	
FINE ME	TTWURST / TEEWURST FGDL	The seasonings alre the maturing proces	,	sugars. Star	ter cultures ar	nd <b>nitrite curin</b>	<b>g salt</b> need to be ad	ded for
1000158-002	PRIMASOFT	Pepper, paprika, rum	red	10 g / kg	bag, 1 kg	Duo	E 300, E 301, E 621	۵
1000168-002	PRIMETTI OZG	Paprika, pepper, nutmeg	red	8g/kg	bag, 1kg	Duo	E 301	A G

#### **COARSE METTWURST / ONION METTWURST WITH GDL**

maturing	13 1	uonc	u Ji	iig	э
recomme	nd	usin	g s	low	/-

1000179-001	FRESH METTWURST/ RAW BEEF SAUSAGE	Pepper, nutmeg, caraway	beige	6g/kg	bag, 1kg	Duo	E 300, E 575, E 621	۵
1000147-003	ONION SAUSAGE + GDL	Onion, pepper, caraway	beige	12g/kg	bag, 1 kg	Duo BIOSTART	E 300, E 575	<b>A G</b>
1000107-001	SUPERQUICK SM WITH GDL	Pepper, nutmeg, caraway	beige	8g/kg	bag, 1kg	Duo	E 300, E 575, E 621	۵

#### **FINE METTWURST / TEEWURST** WITH GDL

1000150-005	AM 8 WITH GDL Eel smoke mettwurst	Paprika, pepper, eel smoke flavour, rum	red	10g/kg	bag, 1 kg	Duo	E 301, E 575, E 621	۵
1001569-002	<b>SM 11 WITHOUT ADDED MSG –</b> <b>WITH GDL</b> Spreadable mettwurst	Paprika, rum	reddish	8g/kg	bag, 1kg	Duo BIOSTART	E 301, E 575	<b>A G</b>

#### **INFORMATION**

The binding process is largely prevented in spreadable teewurst and fine mettwurst. The fat encapsulates the lean meat, which prevents it from drying out, ensuring it remains spreadable. Spreadable raw sausage has a higher fat content and a<sub>w</sub>-level than firm raw sausage, its protein is not denatured, and it has a short shelf-life.

## RAW SAUSAGE SPREADABLE

Maturing is done using **glucono-delta-lactone.** To achieve the flavour typical of raw sausage, we also -maturing starter cultures in addition to the GDL maturing process.

Maturing is done using **glucono-delta-lactone.** To achieve the flavour typical of raw sausage, we also recommend using **slow-maturing starter cultures** in addition to the GDL maturing process.

# RAW SAUSAGE THIN-CALIBRE

Pfefferbeißer, debrecener, mettwurst: thin-calibre varieties of raw sausage have become a popular snack because they are handy and taste great.

ITEM	PRODUCT NAME

INGREDIENTS FLAVOUR

COLOUR DOSAGE PACK SIZE CULTURE\* E-NUMBERS

#### **SEASONINGS WITHOUT GDL**

The seasonings already contain sugars. Starter cultures and nitrite curing salt need to be added for the maturing process.

1694483-001	PURELINE PFEFFERJÄGER	Pepper, ginger, onion	white	15g/kg	bag, 1 kg	Classic	E 300	86
1091040-001	PURELINE RA-METT	Pepper, nutmeg, coriander, caraway	beige	8g/kg	bag, 1 kg	Classic BIOSTART	E 301	AG
1000177-004	PUSZTA STICKS	Chili, pepper, coriander	red	5g/kg	bag, 1 kg	Classic	E 300	<b>A</b> G
1000165-003	RA-METT WITHOUT GDL	Pepper, nutmeg, coriander, caraway	beige	8g/kg	bag, 1 kg	Classic BIOSTAFT	E 301, E 621	8
1699034-001	SALSICHA SMOKE AND CHILI	Paprika, chili, smoke	red	17g/kg	bag, 1 kg	Classic	E 301	AG

ITEM	PRODUCT NAME	INGREDIENTS FLAVOUR	COLOUR	DOSAGE	PACK SIZE	CULTURE*	E-NUMBERS	
SEASONINGS WITH GDL		Maturing is done usi recommend using <b>s</b>						we also
1000136-001	CHILI BITES WITH GDL Contains: LACTOSE	Chili, paprika, paprika chips	red	13g/kg	bag, 1kg	Duo BIOSTART	E 300, E 575	G
1000144-002	KRAKAUER	Pepper, nutmeg, caraway	brownish	8g/kg	bag, 1kg	Duo	E 300, E 301, E 575	<b>A G</b>
1000140-001	LANDJÄGER WITH GDL	Pepper, caraway	brownish	15g/kg	bag, 1kg	Duo	E 300, E 575, E 621	۲
1000170-004	PFEFFERJÄGER WITH GDL Contains: LACTOSE	Pepper, ginger	beige	15g/kg	bag, 1kg	Duo	E 300, E 330, E 575, E 621	
1000155-001	RA-METT WS WITH GDL	Pepper, nutmeg, coriander	beige	8g/kg	bag, 1kg	Duo BIOSTART	E 300, E 330, E 575, E 621	۵
1000133-001	SCHINKENKNACKER	Pepper, caraway, nutmeg	beige	8g/kg	bag, 1kg	Duo	E 300, E 575, E 621	<b>A</b>

#### INFORMATION

Thin-calibre raw sausage varieties such as rohpolnische, pfefferbeißer/pfefferjäger, debrecener and mettwurst are notable for their soft consistency. Their firmness is controlled by reducing the a<sub>w</sub> level (water emission).

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## RAW SAUSAGE THIN-CALIBRE



### TECHNOLOGY

## RAW SAUSAGE **PRODUCTION TECHNOLOGY**



RAW MATERIALS form the foundation for successful raw sausage production. The quality of the meat and the degree of mincing are decisive for the properties of the final product.



Meat quality (pH value below 5.9; no PSE. DFD) animals

Meat

from

older

Only hygieni-Firm, cally fresh dry bacon meat



ADDITIVES are responsible for firmness, colour, shape and flavour. Put together the combination that is right for your creations, or choose a ready-blended RAPS recipe.



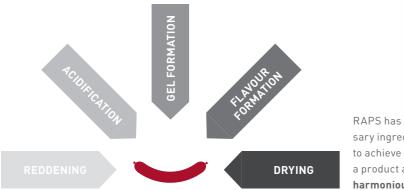
Salt provides flavour and colour and acts as a preservative and binding agent

- **Starter cultures** trigger the maturing process
- **Sugars –** mono- and oligosaccharides feed the starter cultures
- **Seasoning** gives an artisan sausage its particular character

Reddening agents, such as ascorbic acid and ascorbate, promote the breaking-down of nitrites in the product

Sausage casings give the sausage its shape and influence the maturing process

THE MATURING PROCESS Raw sausage maturing is a complex process in which different activities take place simultaneously and consecutively. By controlling the maturing process, you can dictate parameters such as acidification, reddening, gel formation, drying and the formation of flavour. Additives are used at various stages of raw sausage production. For example, nitrite curing salt and cooking salt are used in conjunction with sodium nitrate to create colour and preserve the sausage, while reddening agents assist in the breaking-down of nitrites.



RAPS has perfectly balanced the necessary ingredients with the right seasoning to achieve maturing and create as safe a product as possible with an **especially** harmonious flavour.

#### THERE ARE TWO DIFFERENT KINDS OF MATURING PROCESSES:

1. NATURAL MATURING using sugar and/or sugar blends in conjunction with starter cultures and appropriate temperature control.

2. GDL MATURING using GDL preparations that can also be processed at low temperatures.

#### RAPS HAS THE RIGHT COMPLETE SEASONING BLENDS FOR BOTH PROCESSES TO ALLOW YOU TO:

- · Cut down the number of added ingredients
- Eliminate weighing errors for a high level of production safety
- Achieve constant quality level in mixtures
- in the mixture



THE PRODUCTION PROCESS includes cutting and mincing. Cutting is now the default method of grinding the meat, because the rotating blade is able to make the sausage mass very homogenous and controls the level of firmness very well. But certain raw sausage varieties such as coarse spreadable mettwurst, have to be minced.

#### **PRODUCTION IN A CUTTER**

- Approx. 50 % frozen meat, approx. 25 % hard frozen bacon, approx. 25 % fresh meat (binding agent)
- Use salami blade head if necessary (reduced number or blades)



SAUSAGE CASING has a technological function as well as a visual purpose. The quality of the casing determines not only the shape, feel and look of a raw sausage, it protects it against outside influences. Simply, sausage casings can be divided into two categories: natural and synthetic. Each has different qualities, but it is always important that the casing is breathable so that it does not block out moisture or smoke, which would disturb the maturing process. You should always follow the instructions for handling each kind of casing.

#### SAFE MATURING USING THE THRESHOLD CONCEPT

A certain amount of bacteria will always exist in your raw materials, even if they are hygienically perfect, so it is important to eliminate them using the 'Threshold Concept':

**1. Preservative:** nitrite curing salt is an anti-bacterial and a preservative agent, and encourages microbiological stability.

2. Redox potential: the E<sub>h</sub> level defines the residual oxygen in raw sausage meat. During metabolisation, the microorganisms contained in the meat consume the residual oxygen, and ascorbate reduces it even more. Eliminating oxygen gets rid of other unwanted microorganisms.

3. Competing flora: lactic acid bacteria suppress antibiotic effects.

## TECHNOLOGY

Optimise maturing process by accurately controlling sugar content and the amount of GDL and additives

#### **PRODUCTION IN A MINCER**

- Approx. 75 % meat, approx. 25 % bacon
- All materials well chilled or slightly frozen
- Simple mincer attachment
- Important: use sharp tool (cut appearance)

4. pH level: the cultures metabolise the sugar in the mixture, reducing the pH level. The acid this creates reduces bacteria in the end-product.

5. aw level: this determines the proportion of active water in the end-product. By reducing the pH level, the meat mass' tendency to exude water increases, which triggers the necessary drying.





## STARTER CULTURES

RAPS has the right starter culture for every maturing process and every level of firmness in your intended end product. This is what makes good meat into outstanding sausage – simply and safely.

#### MATURING PERFORMANCE

Raw sausage production is still considered the foremost discipline of the butcher's trade. There are no limits to your creativity when it comes to shape, properties and flavour.

Choosing the right starter cultures that matches your maturing preparations is essential if you are going to achieve the **optimum pH level progression in the maturing process.** Starter cultures are not only responsible for triggering the process of metabolisation. They also reduce pH levels at the right rate, protect against unwanted microbes, assist in reddening and bring out the raw sausage flavour so typical of the variety you are making.

They are also made to match our maturing preparations and seasonings - which means you can get everything from a single source and create products that are especially harmonious.



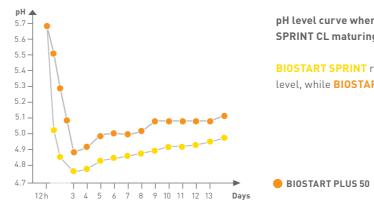
ITEM

PRODUCT NAME

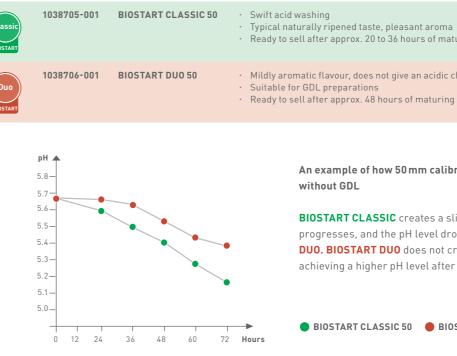
SPECIAL FEATURE

#### FOR FIRM RAW SAUSAGE





#### FOR SPREADABLE AND THIN-CALIBRE RAW SAUSAGE



## STARTER CULTURES

DOSAGE

PACK SIZE

With aromatic yeast for a typical salami flavour Ready to sell after approx. 20 days of maturing

1 bag for 50 kg mass

1 bag for

10 bags of 25g each

50 kg mass

10 bags of 25g each

pH level curve when maturing a 60mm calibre salami using ROTBLOCK SPRINT CL maturing preparation

BIOSTART SPRINT reduces the pH level much quicker and to a lower level, while **BIOSTART PLUS** is known for its pleasant flavour.

BIOSTART SPRINT 50

1 bag for 10 bags of Typical naturally ripened taste, pleasant aroma 50 kg mass 25g each Ready to sell after approx. 20 to 36 hours of maturing Mildly aromatic flavour, does not give an acidic character 1 bag for 10 bags of 50 kg mass 25g each

An example of how 50 mm calibre coarse spreadable mettwurst ripens

**BIOSTART CLASSIC** creates a slightly acidic character as maturing progresses, and the pH level drops more markedly than with **BIOSTART** DUO. BIOSTART DUO does not create an acidic character, and ends up achieving a higher pH level after maturing.

BIOSTART CLASSIC 50 BIOSTART DUO 50

## STARTER CULTURES

#### RAPS STARTER CULTURES

Pizza salami, Hungarian salami, mettwurst, katenrauchwurst and popular snacks like pfefferjäger: a wide range of raw sausage specialities demands varied solutions. RAPS can respond to different requirements because of its extensive research and development facilities. By carefully combining different strains of bacteria, we can significantly reduce the growth of pathogenic microorganisms while achieving the required sensory properties.

#### **BENEFITS OF RAPS STARTER CULTURES**

- Custom cultures for different requirements
- Optimised maturing curve
- Aromatic, typical raw sausage flavour
- Controlled pH level curve
- Encourages reddening
- Perfectly attuned to RAPS seasonings and
- maturing preparations



#### COMPARING THE TWO MATURING PROCESSES USING A FIRM RAW SAUSAGE AS AN EXAMPLE

It is very important to achieve accurate, controlled pH value reduction in a raw sausage product if it is to succeed, regardless of which of the two maturing processes is used.

#### NATURAL MATURING

- Slow maturing in a maturing or climatic chamber
- Maturing duration: 2 to 8 weeks (depending on

Day	Temperature	% rh*
1	22-24 °C	92-94
2	20-22 °C	90-92
3	18–20 °C, poss. light smoke in-feed if required	88-90
4	18-20 °C	86-88
5	18 °C	84-86
6	18 °C, poss. light smoke in-feed if required	82-84
≥ 7	12-14 °C	80-83

#### **GDL MATURING**

- Quickest method of raw sausage maturing
- GDL rapidly reduces pH value
- No maturing chamber, effective in cold-store
- Initial results within 5 to 8 days (depending on product)

#### Maturing recommendation (example)

- Hang away from draughts in a cold-store
- Maturing time for 60mm calibre: approx. 5 days, for 90mm calibre: approx. 8 days
- Smoke in-feed after cold-store
- Post-maturing: 12-14 °C / 80-83 % rh

#### **GDL MATURING**

GDL maturing is the quickest method of maturing raw **sausage.** Firm sausage can be ready to sell after only 5 to 7 days depending on calibre, while spreadable sausage can even be ready after 24 hours. GDL stands for 'glucono**delta-lactone':** this acidifier converts into gluconic acid in a watery milieu, which reduces the pH level very quickly. The higher the proportion of GDL in the preparation, the quicker and lower the pH level sinks. This process is especially good for butchers who do not have climatic or maturing chambers.

#### BENEFITS

- · Prevents the growth of harmful microbes
- Faster reddening
- Better water emission / drying
- Promotes gel formation (firming)





ITEM	PRODUCT NAME	SPECIAL FEATURE	FO
FRESHNE	SS ENHANCERS		
1000745-005	MOULD EX	For raw sausage and raw ham	bo,
EDIBLE M	IOULD MATURING		
1038777-002	EDELSCHIMMEL CLASSIC	Mould culture on dextrose carrier	po,
REDDENI	NG AGENT		
1000785-003	COLO-FIX		po

1000785-003	COLO-FIX		po۱
1000781-003	RA-SAL	Sodium nitrate for raw sausage and raw ham	p٥١

#### **EMULSIFYING AGENTS**

1000931-001	SUPERSOFT PUR	For spreadable raw sausage	pov
ACIDIFIE	RS		
1000106-002	SUPERQUICK	For raw sausage	pov

# TECHNICAL AIDS

We offer different resources for achieving things like high stability and

PACK SIZE E-NUMBERS ORM DOSAGE owder Dissolve 15 % bag, 1 kg E 202 (A) (G (1.5 kg in 8.5 l) in cold water owder Bag for bag, 40 g EAG 501 water 0.5–2g/kg bag, 1 kg E 300 wder AG 1g/kg bag, 1 kg E 252 owder (A) (G) 4g/kg bag, 1 kg E 300, E 301, (A) (G) E 415, E 471 5-9g/kg E 300, E 575 wder bag, 1 kg (A) (G)



## SAUSAGE CASINGS

An attractive casing is an important part of creating a successful sausage. It is what gives customers the first impression, which is a crucial factor in the buying decision. A casing gives a raw sausage its shape and is therefore critical to overall appearance.

	ITEM	PRODUCT NAME	CALIBRE/ FORM	DELIVERY UNIT	COLOUR	PRINT
FIBROU (FAS-D)	S CASINGS	i		gnated cellulose fibrous casing that adhere any maturing process. Ideal maturing and s ability.		
CHORIZO	1193357-000 1193359-000	CHORIZO SALAMI	40/25 40/GE	Bundle, 25 units Tube, 20m, minimum order: 10 ×	natural with mould look natural with mould look	4/1-colour 4/1-colour
	1050728-000 1050291-000	HAUS-SALAMI	60/50 55/21	Bundle, 25 units Bundle, 25 units	amber amber	4/0-colour 4/0-colour
SALAMA Tanganan	1050046-000	MEISTER SALAMI	60/50	Bundle, 25 units	amber	4/0-colour
)798n622mim68 Kaminstander(	1192216-000 1192217-000	KAMINSTANGERL	38/30 38/GE	Bundle, 25 units Tube, 10 m	palisander palisander	2/2-colour 2/2-colour
	1190620-000 1192218-000 1192219-000	NET PRINT	75/50 60/50 60/GE	Bundle, 25 units Bundle, 25 units Tube, 10 m	amber amber amber	1/1-colour 1/1-colour 1/1-colour
	1190351-000 1009783-000 1190350-000 1190537-000 1190488-000 1190149-000	FAS-D UNPRINTED	90/50 75/50 75/50 60/50 60/GE 50/25	Bundle, 25 units, minimum order: 10 × Bundle, 25 units Bundle, 25 units, minimum order: 10 × Bundle, 25 units, minimum order: 10 × Tube, 20 m, minimum order: 10 × Bundle, 25 units, minimum order: 10 ×	amber amber amber amber amber amber	Unprinted Unprinted Unprinted Unprinted Unprinted Unprinted
	1190569-000	FAS-D UNPRINTED	55/GE	Tube, 20m, minimum order: 10 ×	natural	Unprinted

#### **FIBROUS CASING NET PRINT** (FAS-N)

Fibrous casing with identical properties to the FAS-D, but with less adhesion to the sausage or meat.

CROBE TECHURST RIGEMALDR	1052803-000 1052017-000	COARSE TEEWURST	55/31, sewn 55/21	Bundle, 25 units Bundle, 25 units	natural natural	4/1-colour 4/1-colour
Pfeffer-	1050706-000	PFEFFERSÄCKCHEN	50/15, sewn	Bundle, 25 units	natural	3/0-colour

					SAUSAGE CA	SINGS		
	ITEM	PRODUCT NAME	CALIBRE/ FORM	DELIVERY UNIT	COLOUR	PRINT		
FIBROUS CASING COTTON NET (RANET)			cess. The net an	Adhesion-impregnated cellulose fibrous casing with cotton knotted net: for the perfect maturing pro- cess. The net and casing form a single unit, enabling more efficient production. The net also remains tight around the sausage after maturing, making the sausage look better.				
	1190619-000 1190618-000	COTTON NET	90/50 55/50	Bundle, 25 units Bundle, 25 units	natural natural	Unprinted Unprinted		
FIBROU (HFD)	IS SKIN CA	SING		sing made of bovine split fibres: ideal for s ecially classy appearance.	moked raw sausage. BIANCO pi	rinting gives the		
10.3	1192214-000 1192215-000	BIANCO	60/50 60/GE	Bundle, 25 units Tube, 10 m	natural with mould look natural with mould look	2/2-colour 2/2-colour		
CELLO	CASE		Breathable cello smoked sausage	ulose casing with excellent smoke absorbi es.	ng properties: especially suitab	le for making		
PEINE TEEWURST RGENERLDER ART	1052018-000 1052802-000	FEINE TEEWURST	50/21 45/40	Bundle, 25 units Bundle, 25 units	transparent transparent	3/1-colour 3/1-colour		
	1009934-000 1009933-000 1009935-000	SPREADABLE METTWURST	45/40 45/21 45/GE	Bundle, 25 units Bundle, 25 units Tube, 20 m	transparent transparent transparent	3/1-colour 3/1-colour 3/1-colour		
Motor Methyunst	1190577-000	SPREADABLE METTWURST	34/GE	Tube, 10 m	smoke	3/0-colour		
	ETIC SINGL (PIC-P)	E LAYER	Synthetic casing	J, non-self-shrinking.				
(M) Zwiebel- Mettwurst	1190576-000 1190614-000	MODERN ONION METTWURST	34/GE 43/GE	Tube, 10 m Tube, 25 m, minimum order: 10 ×	transparent transparent	3/0-colour 3/0-colour		
Total Andrews	1050054-000 1050724-000	ONION METTWURST	43/GE 43/20	Tube, 20 m Bundle, 25 units	transparent transparent	3/0-colour 3/0-colour		

INFORM	IATION
	in mm <b>s:</b> bundle: gathered according to (GE): tube in metres

NO E-NUMBERS SUBJECT TO DECLARATION



# RAW CURED MEAT PRODUCTS

Our seasonings represent the ideal complement to the typical flavours of different kinds of raw cured meat product. The starter cultures are chosen to match each recipe to accentuate the typical raw ham flavour and assist in creating an appetising cured colour.



ITEM PRODUCT NAME

INGREDIENTS FLAVOUR

### **SEASONING**

We recommend using our BIOSTART RP starter culture to achieve an even better, typical raw cured flavour.

1000786-004	BACON & HAM SEASONING	Pepper, onion, juniper	beige	5g/kg + nitrite curing salt	bag, 1kg	E 621	۵
1000767-003	BLACK FOREST HAM	Pepper, juniper, bay leaf, coarse	beige	4–5g/kg + nitrite curing salt	bag, 1 kg	E 621	۵
1000772-005	COUNTRY HAM	Pepper, allspice, juniper	beige	5g/kg + nitrite curing salt	bag, 1 kg	E 621	۵
1000749-001	DRY CURED HAM ITALIA	Pepper, onion, typically strong Italian flavouring	white	4–6g/kg	bag, 1 kg		EAG
1000795-007	GOLDEN CURE	Pepper, onion, garlic, juniper	beige	6g/kg + nitrite curing salt	bag, 1.5 kg	E 316	<b>A</b> G
1000746-002	GOLDEN CURE WITHOUT ADDED GARLIC	Pepper, onion, juniper	beige	5g/kg + nitrite curing salt	bag, 1.5 kg	E 316	AG
1000773-003	JUNIPER HAM	Pepper, juniper	bluish	8g/kg + nitrite curing salt	bag, 1 kg	E 621	۵
1000800-001	KATENGOLD	Pepper, onion, juniper	beige	4–8g/kg + 40–45g nitrite curing salt	bag, 1 kg	E 301, E 621	A
1091043-001	PURELINE BACON & HAM SEASONING	Pepper, onion, juniper	white	5g/kg	bag, 1kg	E 301	<b>A</b> G
ITE	M PRODUCT NAM	IE SPECIAL FEATUR	RE		DOSAGE		PACK SIZE
STARTER CULTURE FOR RAW CURED MEAT PRODUCTS							
RP 103	7516-001 BIOSTART RP	<ul> <li>Pleasant, charac</li> <li>Assists in creatin a natural colour</li> </ul>			bag conten 100 kg mas		10 bags, 10 g

a natural coloui Suitable for dry and wet curing

### **RAW CURED MEAT PRODUCTS: RIPENED FLAVOUR**

We developed our production-safe **BIOSTART RP** for raw cured meat products of all kinds. This culture can easily be added to any recipe and brings out the typical raw ham flavour, whilst helping to achieve an appetising cured colour. **BIOSTART RP** also helps prevent unwanted bacterial formation, meaning it offers clear microbiological benefits in the salting phase.

## **RAW CURED MEAT PRODUCTS**

COLOUR	DOSAGE	PACK SIZE	E-NUMBERS



## PICTOGRAMS

### E

**NO E-NUMBERS SUBJECT TO DECLARATION** These products do not contain E-numbers which are subject to labelling.

## ALLERGENS

MILK / DAIRY PRODUCTS / LACTOSE All dairy products.

## 

**NO ALLERGENS SUBJECT TO DECLARATION** 

Products that do not contain allergenic ingredients such as soya, fish, nuts or gluten.

## G

### **NO ADDED FLAVOUR** ENHANCERS

These products do not contain any additives that require declaration, such as glutamate.

MUSTARD / MUSTARD PRODUCTS Such as mustard seeds, mustard flour, mustard oil.

### ABBREVIATIONS

**GDL:** glucono-delta-lactone (acid)

**NAG:** no added glutamate

FLAVOUR ENHANCERS

PRESERVATIVES

E 631

**E 621** Monosodium glutamate

Disodium inosinate

**E 627** Disodium guanylate

**E 202** Potassium sorbate

**E 252** Potassium nitrate

LMIV: Lebensmittelinformationsverordnung (EU) 1169/2011 (food labelling regulation)

### **E-NUMBERS**

#### ANTIOXIDANTS

**E 300** Ascorbic acid **E 301** Sodium ascorbate

**E 316** Sodium erythorbate

#### **EMULSIFIERS**

**E 471** Mono- and diglycerides of fatty acids

#### ACIDITY REGULATOR

**E 575** Glucono-delta-lactone

ACID E 330 Citric acid

THICKENERS E 415 Xanthan gum

#### SERVICE

You will find lots of detailed and interesting recipe ideas in our recipe database at www.raps.com. Our RAPS consultants are always ready to assist you if you have any questions about production, and can help you over the phone. We also run regular production seminars.

#### **RAW SAUSAGE**

SEASONINGS					
AM 8 WITH GDL	9	PURELINE ONION SAUSAGE	8	SALAMISPRINT	7
CHILI BITES WITH GDL	11	PURELINE PFEFFERJÄGER	10	SALAMI SPRINT CL	7
COARSE SPREADABLE METTWURST CL	8	PURELINE RA-METT	10	SALAMISUPER	7
FRESH METTWURST / RAW BEEF SAUSAGE	9	PURELINE SALAMI BASIC	6	SALAMI SUPER CL	7
FRESH ONION SAUSAGE TOP	8	PUSZTA STICKS	10	SALAMI WESTA-MIX	7
KRAKAUER	11	RA-METT	10	SALSICHA SMOKE & CHILI	10
LANDJÄGER	11	RA-METT WS	11	SCHINKENKNACKER	11
METT-MAX	8	ROTBLOCK M	6	SM 11	9
MIX FOR CHORIZO	6	ROTBLOCK SUPER	6	SPREADABLE METTWURST SUPERSOFT	8
ONION SAUSAGE	9	SALAMIITALIA	6	SUPERQUICK CW	7
ONION SAUSAGE SUPERSOFT	8	SALAMI ITALIA CL	6	SUPERQUICK GOLD	7
PFEFFERJÄGER	11	SALAMI MILD	6	SUPERQUICK ITALIA	7
PRIMAMETT	8	SALAMI MILD CL	6	SUPERQUICK SM	9
PRIMASOFT	9	SALAMI MILD FRENCH STYLE	6	SUPERQUICK TOP	7
PRIMETTI OZG	9	SALAMIQUICK	6		

#### STARTER CULTURES

**BIOSTART CLASSIC 50** 15 BIOSTART PLUS 50 **BIOSTART DUO 50 BIOSTART RP** 15

### TECHNICAL AIDS

COLO-FIX 17 RA-SAL EDELSCHIMMEL CLASSIC 17 MOULD EX

SAUSAGE CASINGS					
BIANCO	19	FEINE TEEWURST	19	NET PRINT	18
CHORIZO SALAMI	18	HAUS-SALAMI	18	ONION METTWURST	19
COARSE TEEWURST	18	KAMINSTANGERL	18	PFEFFERSÄCKCHEN	18
COTTON NET	19	MEISTER SALAMI	18	SPREADABLE METTWURST	19
FAS-D UNPRINTED	18	MODERN ONION METTWURST	19		

#### **RAW CURED MEAT PRODUCTS**

SEASONINGS					
BACON & HAM SEASONING	21	DRY CURED HAM ITALIA	21	JUNIPER HAM	21
BLACK FOREST HAM	21	GOLDEN CURE	21	KATENGOLD	21
COUNTRY HAM	21	GOLDEN CURE WITHOUT ADDED GARLIC	21	PURELINE BACON & HAM SEASONING	21

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WE LOOK FORWARD TO YOUR INQUIRY

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