



MODULE NO: 15 TECHNOLOGY OF INTERMEDIATE MOISTURE AND DRIED MEAT PRODUCTS





INRTODUCTION

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>Result of the dehydration or drying of lean meat.

Natural conditions or in an artificially created environment.



PROCESSING PROCEDURE

- 1.Fermented Dry Sausage:-
- Formulation and Blending
- > Stuffing
- Fermentation
- Heating and Drying
- ≻Smoking

THE KEY CONSIDERATIONS

1.30-40% moisture loss.

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- 2.Fat smearing over lean tissue minimized
- 3.Raw meat mix Temp. 25-28°F
- 4.Meat mix temperature at stuffing 25-30°F
- 5.Meat visual defects should be minimized



FERMENTED DRY SAUSAGE

The product is formulated to about 28-32% fat.

The maximum amount of beef allowed in product labeled as "pepperoni"

≻Not "beef pepperoni" is 55%.

≻Most processors use a minimum 60% pork.

FERMENTED SEMI-DRY SAUSAGES



Example

Summer sausage, Lebanon bologna and thuringer

Do not lose as much water (10-15% loss) as dry sausages (30-40% loss).

The drying occurs during fermenting and cooking

≻lower pH (<4.8).

≻a fermentation period of 12-16 hours at 100°F

FERMENTED SEMI-DRY भिठशाला SAUSAGETYPE

Chemically Acidified Sausages-

formulated with chemical acidulants

Non-Acidified Dried Sausages

Not fermented or acidified

DRIED WHOLE MUSCLE PRODUCTS



Muscle products are mostly dry cured

Example

✓ Prosciutto,

✓ Parma and country ham dried pork bellies (Pancetta),
✓ Dried pork shoulders (coppa)
✓ Dried beef rounds



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PROCESS OF DRIED MUSCLES PRODUCTS

Dry Curing

- Pickle Curing
- Injection Curing
- Burning
- Ripening
 CO₂ Gassing



CHANGES DURING PROCESSING: DRY HAM



Iower moisture content (22-24%),

water activity (<0.80)</p>

moisture protein ratio (0.75:1.0 or less)



PROCESS MONITORING OF বিষয়েশন SHELF-STABLE DRIED MEATS

- 1. Microbiological monitoring
- 2. Moisture content and moisture/protein ratio
- 3. Water activity
- 4. PH
- 5. Product weight throughout process



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6. Air circulation velocity and uniformity

7. Temperatures

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8. Relative humidity during process.



FINAL PRODUCTS: DRIED

Combination of following characteristics:-

Low pH/higher acidity

Low water activity

Inherent microflora in non-cooked products





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- Kanatt SR, Chawla SP, Chander R, Bongirwar DR. 2002. Shelfstable and safe intermediate moisture (IM) meat products using hurdle technology. J Food Prot 65:1628–31.