

# Research Process of Avian Carcass Treatment

- Time : From Apr.24,2015 to Feb.16,2016
- Place : Gunbuk-myeon Kumsan-gun, Chungnam, Korea
- Test Material : 12 Poultry carcass, 3 containers (300 liter),  
ML Bacteria S&C / Boost, Sealing material
- Results
  - 6.6 Months : Brocken down by the pumpable level
  - 9.9 Months : Complete degradation of carcass, liquefaction
- Decomposition speed Decision factors
  - 1) Environmental influences such as ambient temperature and water content / tank depth at the time of treatment
  - 2) Floating phenomenon of carcass (limited contact area)





# Photos of decomposition process





7 Days



01-May-15

ML Bacteria

28 Days



21-May-15

ML Bacteria

56 Days



19-Jun-15

ML Bacteria

91 Days



23-Jul-15

ML Bacteria

105 Days



12-Aug-15

ML Bacteria

133 Days



04-Sep-15

ML Bacteria



6.6개월



09-Nov-15

ML Bacteria

9.9개월



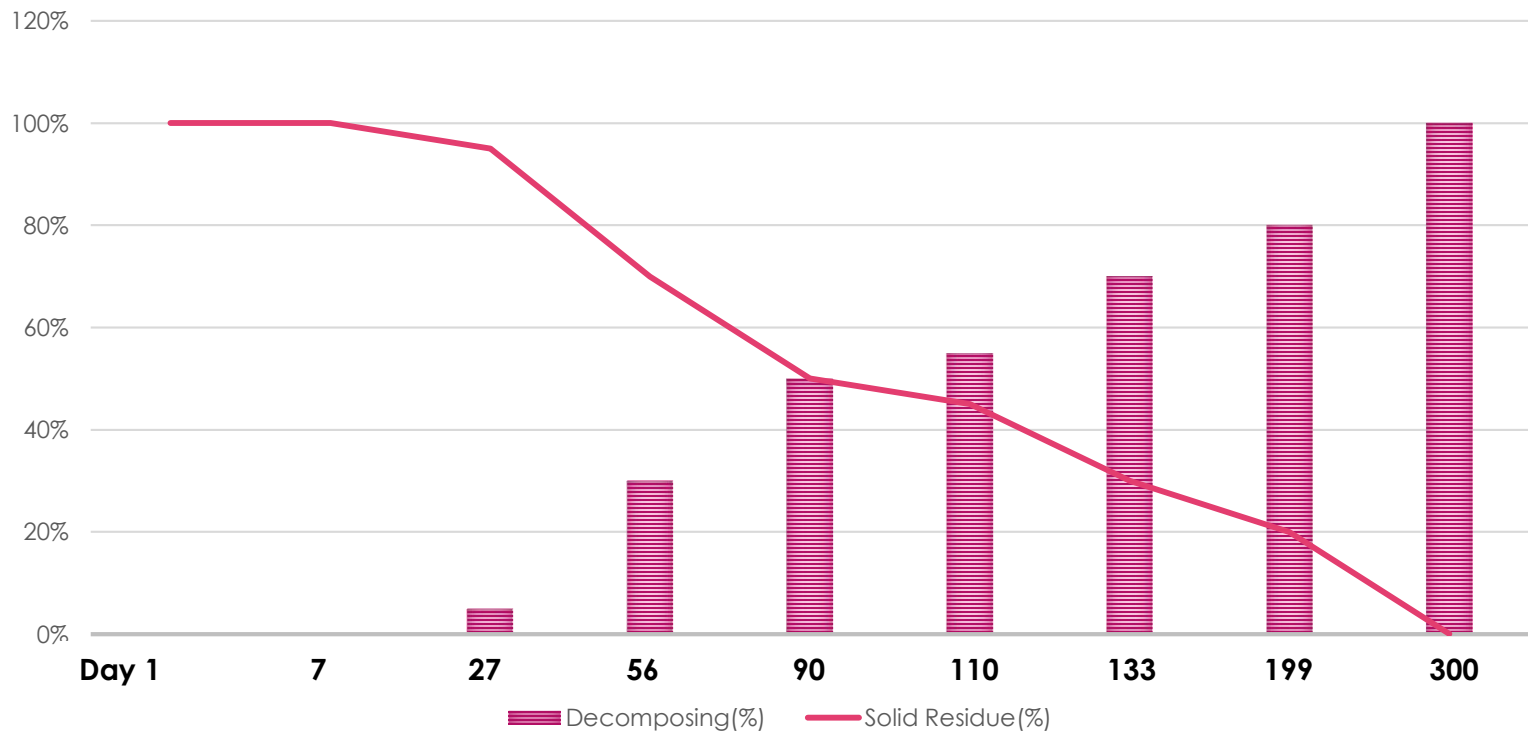
18-Feb-16

ML Bacteria



# Avian Carcass decomposing Data

## AVIAN CARCASS DECOMPOSING BODY



# Commercialization of poultry carcass treatment system

- 1) Anaerobic Microbial Treatment System Utilizing Existing Reservoir
- 2) Anaerobic Microbial Treatment System Using New Storage Tank



**Commercialization and  
product definition**





## 속성 발효 혐기 미생물을 이용한 **가금류** 사체처리 시스템

비즈니스아이디어(BI) 사업화 정부 지원사업에 의해 개발된 사체처리 시스템입니다

# 아라리(ARARI)

- ▶ 가장 경제적이고 현실적인 사체 처리 시스템입니다
- ▶ 사체를 발견 즉시 격리할 수 있습니다.
- ▶ AI(조류인플렌자), 각종 전염성 질병을 완전히 차단 합니다
- ▶ 사체를 10 개월만에 속성 분해 시켜줍니다
- ▶ 농업용 아미노산 액비로의 자원화가 가능합니다.



충북대학교 약학대학





## Poultry carcass treatment system using anaerobic microbial fermentation

A poultry carcass treatment system developed by Korean Government Business Idea Support Project

**아라리 (ARARI)**

- ▶ is the most economical and realistic carcass processing system.
- ▶ Isolates a body as soon as it is found in a farm.
- ▶ blocks completely all infectious diseases.
- ▶ quickly disintegrates the carcass in 10 months.
- ▶ converts a body into agricultural liquid fertilizer.



**Chungbuk National University  
College of Pharmacy**



# Avian Carcass Treatment System

Pharma<sup>®</sup>  
TEKSOL





# 9 pm News / Broadcasting on studies using ML bacteria against animal carcasses not degradable after 5 years.

