

# **Audit Report**

Beef Trim N60 Addendum

National Beef Packing Co., LLC. - Liberal 1501 East 8th Avenue Liberal, Kansas 67905

> Audit Date: August 20, 2024 Auditor: Rudy Hernandez



## **Audit Summary**

| Company Name: | National Beef Packing Co.,<br>LLC Liberal     | Company ID: | AUNATLIB |
|---------------|---|-------------|----------|
| Address:      | 1501 East 8th Avenue<br>Liberal, Kansas 67905 |             |          |

| Contact Name:          | Troy Smith                  |
|------------------------|-----------------------------|
| Contact Phone Number:  | 816-713-8603                |
| Contact Email Address: | Troy.Smith@nationalbeef.com |

| Audit ID:     | AO-009173       |
|---------------|-----------------|
| Audit Date:   | August 20, 2024 |
| Audit Type:   | Unannounced     |
| Audit Result: | Completed       |

| Auditor Name:          | Rudy Hernandez          |
|------------------------|-------------------------|
| Auditor Phone Number:  | 970-405-0369            |
| Auditor Email Address: | rudy.hernandez@fsns.com |



## Beef Trim -- N60 Addendum

### 1 Interventions for Pathogen Reduction

| _1       |   |     |
|----------|---|-----|
| 1.1      | E. coli O157:H7 is a hazard likely to occur in the facility's HACCP plan(s)   | Yes |
| Comment: | E. coli O157:H7 was a biological hazard identified as reasonably likely to occur in facility HACCP plans.   |     |
| 1.2      | The facility uses one or more recognized microbiological intervention technologies in its process. Acceptable technologies include: steam pasteurization, hot water pasteurization, organic acid rinses, steam vacuums, or antimicrobial treatments. (List the technologies utilized) | Yes |
| Comment: | Caustic acid, hot water, lactic acid, and peracetic acid were utilized as antimicrobial interventions.  |     |

List all microbiological interventions and pathogen reduction processing aids. Include both slaughter and fabrication related interventions that are applied. Additionally, the facility must have at least one of the interventions designated as a Critical Control Point (CCP) in its HACCP plan to address *E. coli* O157:H7 (Identify which interventions are CCPs by putting (CCP) after intervention). Document what the facility is monitoring (Ex. concentration, temperature, dwell time, etc.) for each intervention and identify which interventions are CCPs .

| Slaughter Interventions  | What parameters are monitored?                        |
|--|---|
| Caustic acid applied through the hide on carcass wash  | Caustic acid applied through the hide on carcass wash |
| Lactic acid on hide opening and post final hot water wash  | Concentration, coverage, and temperature              |
| Hot water pre-evisceration wash  | Temperature, pressure, and application coverage       |
| Peracetic acid applied to carcasses post evisceration and to heads, hearts, boneless beef, livers, and weasand (CCP) | Concentration and nozzle function (CCP)               |
| Hot water applied to carcasses through CHAD cabinets 1 and 2 (CCP) and to heads through the head wash                | Temperature, pressure, and nozzle function (CCP)      |



| PAA applied to carcasses<br>through the transfer cabinet<br>from the hot box to the sales<br>cooler | Concentration and coverage |
|---|----------------------------|
| Bacteriophage applied to live cattle during warmer months   | Monthly viability sample   |

#### **Fabrication Interventions**

| Fabrication Interventions  | What parameters are monitored? |
|--|--------------------------------|
| PAA applied through the pre-fabrication cabinet, chuck cabinet, trim belts, and primal belts | Concentration and coverage     |

Any microbiological intervention technology designated as a CCP has been validated against *E. coli* O157:H7. Validation studies (may be a 3rd party challenge study, journal paper, in-house study, etc.) are on file. List validation materials and date of validation. [Note - if not thermal (steam or hot water), intervention must be validated and demonstrated as equal or better to thermal systems for microbial-pathogen reduction. Validation materials must be provided to support equivalency or reduction capabilities.]

| Study Type | Study Name |
|------------|------------|
|            |            |



In-house Validation

Whizzard Lactic Acid Application Est. 208A Liberal Plant Microbial Validation 8/5/2024. Carcass Pre Fabrication Peracetic Wash Est. 208A Liberal Plant Microbial Validation 8/5/2024. Final Carcass Wash Lactic Acid Wash Est. 208A Liberal Plant Microbial Validation8/5/2024. Final Carcass Peracetic Acid Wash Est. 208A Liberal Plant Microbial Validation 8/5/2024 Heart Peracetic Wash Est. 208A Liberal Plant Microbial Validation 8/5/2024. Boneless Beef Est. 208A Microbial Validation 8/5/2024. Head Wash Peracetic Acid Est. 208A Liberal Plant Microbial Validation 8/5/2024. Transfer Hallway Peracetic Wash Est. 208A Liberal Plant Microbial Validation 8/5/2024. Primal Peracetic Treatment Est. 208A Liberal Plant Microbial Validation 8/5/2024. Trim Peracetic Treatment Est. 208A Liberal Plant Microbial Validation 8/5/2024. Carcass Pre Fabrication Neck Peracetic Wash Est. 208A Liberal Plant Microbial Validation 8/5/2024.

List all on-going verification programs for microbiological interventions and pathogen reduction processing aids.

Generic *E. coli* swabs were collected from one out of every 300 carcasses processed. Carcass mapping swabs were collected at hide-on, before the pre-evisceration cabinet, before the final wash, after the final wash, before the transfer cabinet, after the transfer cabinet, and after the pre-fabrication cabinet for TPC, coliforms, and generic *E. coli*. Swabs were collected three times per shift from three carcasses; carcasses were swabbed on the round, chuck, and midline. Products for raw ground use were sampled and tested per identified lot for *E. coli* O157:H7. Process Assessment sampling of such products for pSTEC was conducted monthly for both variety meats and boneless trim.

1.4 Does the facility have a direct product treatment intervention on trim prior to N60 sampling? Note if facility treats trim or trim belts prior to sorting, boxing, or comboing of product. Yes

Comment: PAA was applied to trim belts prior to sampling.

## 2 Sampling Programs for Products Destined for Raw, Ground



| 2.1 Facility produces combo trim? Yes  Comment: Combo trim was produced.  2.2 Written sampling program in place for combo trim  Sampling and Testing Procedures MCT Combo Individual Combo Sub Samples MicroTally Swab Combo Sampling and Testing Procedure and Beef E. coli O157:H7 and STEC Testing program defined combo sampling requirements.  2.3 Facility produces box trim?  Comment: Boxed trim was not produced.  2.4 Written sampling program in place for box trim  Not Applicable  Comment: Boxed trim was not produced.  2.5 Facility produces FTB, BLBT, LTB, AMR or similar material? Yes  Comment: AMR was produced.  2.6 Written sampling program in place for FTB, BLBT, LTB, AMRor similar material Yes  Comment: National Beef Packing Co. LLC Intermediate Lean Sampling Procedures E. coli O157:H7, Iron, Calcium was implemented for sampling of AMR.  2.7 Facility produces other raw beef components (head meat, cheek meat, hearts, tongue root, etc.)?  Comment: Head meat, cheek meat, tongue root, and hearts were produced.  2.8 Written sampling program in place for other raw beef components  Yes  Comment: National Beef Packing Co. Offal N60 Sampling Procedures for E. coli O157:H7 Testing was implemented for offal testing.  2.9 Sampling program is demonstrated and validated as robust and rigorous and is equivalent or better to the N=60 best practice' program for 95% or better statistical confidence. If not N=60, describe sampling process and list N value in Comments.  Comment: N60 sampling, and manual cloth sampling were performed.  2.10 How are the samples collected? [For example, traditional excision, modified excision, mechanical, or cloth method. NOTE – Traditional excision is defined as the USDA sampling method.]  Comment: Trim samples were collected through manual cloth sampling. Offal samples were collected via traditional excision. AMR samples were collected via traditional excision. | 2        | Note: A minimum of N=60 testing per lot for <i>E. coli</i> O157:H7 is performed on beef trim and other raw beef components [i.e., head meat, hearts, etc.] produced in the plant that are 'intended for raw ground use'. Sampling programs must be written and supported with validation data and documentation. Related documents shall be available for review upon request. |                |
|---|----------|--|----------------|
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|   | 2.10     | mechanical, or cloth method. NOTE – Traditional excision is defined as the USDA  | Remark         |
|   | Comment: |  |                |



#### Sampling Method

| Question   | Method | Comment  |
|--|--------|--|
| How are the samples collected? [For example, traditional excision, modified excision or mechanical. NOTE – Traditional excision is defined as the USDA sampling method.] | Other  | Variety meats were sampled via<br>traditional excision. Trim was<br>sampled via microtally cloth.<br>AMR was N60 grab sample |

2.12 If procedure is modified from traditional excision, is there validation documentation? Yes Comment: Validation for the manual cloth sampling method was through the MARC MSD Validation Study. "Novel Continuous and Manual Sampling Methods for Beef Trim Microbiological Testing. Wheeler, T.L. and Arthur, T.M. 2018. 2.13 Facility verifies sample counts? List the frequency in Comments (ex. X times by plant per Yes week, X times by lab per week). How is sample count verification documented? Comment: The laboratory did not verify sample counts. Weekly verifications of sample counts by QA management if collected through traditional excision, were documented on the National Beef Verification of E. coli O157:H7 Sampling for Trimmings/Naked in Combo Primals and Verification of E. coli O157:H7 Sampling for Offal sheets. Verification of time required for use of the Micro Tally cloth sampling was also documented once per week on these forms. Records from the week of 2/26/2024 evidenced program compliance. 2.14 Facility verifies sample weights? Describe the process and list the frequency in Yes Comments. List sample weight minimum, maximum, and target. List how weight verification is documented. Comment: Weights were verified on each sample collected by the laboratory and QA technicians if excision sampling was performed. Sample weights were also verified weekly by QA management, with verifications documented on the National Beef Verification of E. coli O157:H7 Sampling for Trimmings/Naked in Combo Primals/AMR and Verification of E. coli O157:H7 Sampling for Offal sheets. Target sample weights were 375g to 450g with a target of 375g for each sample type. This question was not applicable to samples collected with the Micro Tally cloth.

2.17 Sampling program should account for exceptions for extremely large pieces of product where it may not be possible to sample individual pieces (2 piece-chucks, goosenecks). Describe exception.

Does sampling program target - where possible - surface tissue over internal tissue?

Does sampling program require each excision sub-sample to be collected from distinctly

Sampling protocols targeted surface tissue when performing excision sampling.

Comment: Samples were collected from distinctly different trim pieces when excision was performed.

Yes

Yes

Yes

2.15

2.16

Comment:

different trim pieces?



Comment: Cloth sampling was utilized for for large pieces. 2.18 Is there a program in place to address the handling of lotting for slow fill versus fast fill Yes combos? Comment: Protocols required that slow-fill combos be sampled when they were 3/4 full and full. Combos could not remain on the floor for more than two hours. They were identified by lot number, product code, and identification number. Combo fill times were documented. OBSERVATION OF TRIM SAMPLING - Auditor should observe sample collection and 2.19 Yes report accuracy against specified method and SOP. Comment: The trim combos observed were sampled following procedures defined in the documented sampling protocol. Before sampling, sampling equipment, sleeves, and gloves were sanitized using hot alcohol-based sanitizer and allowed to dry. Gloves and sleeves were changed between samples collected. Care was taken with the cloth to ensure cross-contamination did not occur, and the sample was massaged for the required amount of time. 2.20 Employees performing sampling programs are trained to complete sampling tasks and Yes training is documented. Verification of employee sampling techniques are visually reviewed (direct observation) at an established frequency. Reviews are documented. QA management performed weekly verifications of procedures used for excision sampling, Comment: Micro Tally Cloth sampling, and grab sampling, with results documented on the verification documents. Records from the week of 2/26/2024 were presented and supported program compliance. Annual training was conducted for employees performing sample collection. Training records from YTD 2024 were presented as verification. 2.21 Lotting methods and lot sizes are defined and designed to cover all 'intended for raw Yes ground' meat components produced in plant. Lotting programs must be supported with documentation. Comment: Lotting method support was defined within sampling programs. Lot Size Lot Size Type Comment Combo Trim Combos A single combo was identified as

## AMR Production Day

3 Verification Testing / Check Sample Program

Head meat, hearts, cheek meat,

tongue root muscle

3

**Production Day** 

one lot.

A production day was considered

A production day was considered



| 3.1      | As an ongoing verification/check of the sampling and testing procedures in the plant, the facility conducts quarterly verification/check samples of N=60 tested trimmings by subjecting a negative tested 'lot' to grinding and subsequent finished product testing.   | Yes |
|----------|--|-----|
| Comment: | Process Assessment verification samples were collected monthly. Samples for <i>E. coli</i> O157:H7 and pSTEC were collected simultaneously, with the pSTEC sample held until initial <i>E. coli</i> O157:H7 test results were received. A new product was selected for Process Assessment testing if a non-negative result was received. |     |
| 3.2      | If the facility wishes to take the verification sample prior to the receipt of the initial ECH7 lab results, this is permissible to save time. However, the facility must confirm that the initial N=60 sample is negative, and if the results are not negative, a new verification sample must be taken.                                | Yes |
| Comment: | Process Assessment verification samples were collected monthly. Samples for <i>E. coli</i> O157:H7 and pSTEC were collected simultaneously, with the pSTEC sample held until initial <i>E. coli</i> O157:H7 test results were received. A new product was selected for Process Assessment testing if a non-negative result was received. |     |
| 3.3      | The verification sample is required to be taken from finished (ground) product. If there are variances from this in the facility's protocol, customers must be notified. Verification sample should be taken from finished (ground) product  | Yes |
| Comment: | Process Assessment verification samples were collected from ground products.   |     |
| 3.4      | Verification/check sampling and testing are increased to a monthly frequency for second and third quarters (April – September).  Auditor is to list the dates of the last three quarters verification/check samples in the comments section.   | Yes |
| Comment: | Verification samples were collected monthly. Testing results from the following dates were reviewed and returned negative results.   |     |
|          | Variety Meats: 7/18/2023, 7/20/2023, 8/09/2023, 9/12/2023, 9/13/2023, 10/17/2023, 11/14/2023, 11/15/2023, 12/21/2023, 1/16/2024, 1/18/2024, 2/27/2024, 3/14/2024, 3/15/2024, 4/03/2024, 4/04/2024, 5/07/2024, 5/08/2024, 6/25/2024, 7/19/2024, 7/22/2024, 8/22/2024.   |     |
|          | Trim: 7/18/2023, 8/08/2023, 9/12/2023, 10/12/2023, 11/14/2023, 12/21/2023, 1/16/2024, 2/27/2024, 3/12/2024, 4/23/2024, 5/07/2024, 6/25/2024, 7/11/2024, 8/21/2024.   |     |
|          | AMR was not subjected to verification testing.   |     |
| 3.5      | OBSERVATION OF VERIFICATION / CHECK SAMPLING - N60 verification/check samples shall be observed by an independent third party auditor minimally one time per year, Lab testing shall be conducted at a third party lab minimally one time per year.  | Yes |
| Comment: | Third-party verification observations typically occur twice per year. The most recent observation occurred in April 2024. Verification samples were sent to a third-party laboratory for testing.  |     |



|           | Laboratory Information   |                |
|-----------|--|----------------|
| 4         |  |                |
| 4 Testing | Laboratory   |                |
| Comment:  | 398 grams  |                |
| 3.11      | List weight of the final sample.   | Comment Only   |
| Comment:  | Samples were collected via core drill.   |                |
| 3.10      | List piece count of the final sample if applicable.  | Not Applicable |
| Comment:  | Samples were collected via core drill.   |                |
| 3.9       | Excision sub-samples are being collected from distinctly different pieces.   | Not Applicable |
| Comment:  | Samples were collected via core drill.   |                |
| 3.8       | Where possible, surface tissue being targeted over internal tissue.  | Not Applicable |
| Comment:  | Aseptic technique was followed. The observed combo was sampled using a core drill inserted into multiple locations that covered the entirety of the combo. Samples were ground twice through a floor grinder prior to selection. Sampling drill, collection container, and grinder were sanitized prior to starting the process. |                |
| 3.7       | Aseptic technique being followed when performing verification testing.   | Yes            |
| Comment:  | Observations occurred between April and October of the calendar year. A third party laboratory was used for verification testing.  |                |
| 3.6       | At least one of the third party observations shall occur between April-September of the calendar year. Results are to be reported directly to customer (as requested). Additionally, if the facility utilizes a third party lab, the observation sample does not need to go to a different lab.                                  | Yes            |
|           |  |                |

| Lab Name                            | Lab Location   |
|-------------------------------------|----------------|
| National Beef Food Safety<br>Center | Liberal Kansas |

List Accreditation and/or Third Party Audit & date.

ISO 17025:2017 certificate through A2LA with a certificate valid until 6/30/26.

4.2 If the testing for E. coli O157:H7 is on-site, the laboratory is physically isolated from production areas.

The Food Safety Center laboratory was physically segregated from the plant, and was

housed in a secured building.

4.3 Controls to prevent pathogen contamination are in place. Yes

Comment: Food Safety Center Microbiology Laboratory Quality Control Manual defined protocols for

sanitation and contamination prevention.

Yes



| 4.5      | There is a program for running positive controls/cultures with documented records for all analyses.  | Yes |
|----------|--|-----|
| Comment: | The site ran a positive control with each batch of samples tested. Results were maintained electronically and were graphed each quarter.                                       |     |
| 4.6      | Laboratory participates in a proficiency testing program to assure accuracy of its results. Records are available for review. List proficiency program used.                   | Yes |
| Comment: | The laboratory participated in quarterly proficiency testing through AOAC. Proficiency testing was conducted quarterly, and records of the last three quarters were presented. |     |

## **5 Lab Methods**

| 5        |   |                |
|----------|---|----------------|
| 5.1      | All sampled slices from a 'lot' shall be enriched and tested. Sampled pieces shall be enriched as intact slices [massaged], and not ground in the enrichment sample.  | Yes            |
| Comment: | Samples were enriched as intact slices if excision was performed. The cloth was enriched as an intact material.   |                |
| 5.2      | If "wet" compositing is being used, list what an enrichment represents (EXAMPLES: N=15 per combo for 5 combos; N=60 per combo; 9 minute ground beef sample).  | Not Applicable |
| Comment: | Wet compositing was not performed.  |                |
| 5.3      | If "wet" compositing is being used, list the number of enrichments that make up the "wet" composite (EXAMPLE: If N=60 per combo completed on 5 different combos, each N=60 is enriched, each of the enrichments are used to make up one "wet" composite, then the answer would be 5). | Not Applicable |
| Comment: | Wet compositing was not performed.  |                |
| 5.4      | Rapid screen method is either:  (a) PCR DNA amplification, or  (b) ELISA-based tests, which is capable of detecting known pathogenic strains of <i>E. coli</i> O157:H7 [including Cluster A strains].   | Yes            |

For the following, please note if methodologies differ based on product types (ex. trim testing has different enrich time versus ground product).

Comment: PCR DNA amplification was used for detection of E. coli O157:H7.

| Method   | Document all methods being used by facility. | Document incubation time, temperature, and dilution factor                           |
|----------|--|--|
| Method 1 | Hygenia BAX (AOAC PTM 102.003)               | Sample enrichment was 1:5 dilution for meat (200 ml for cloth), 8-18 hours, at 42 C. |
| Method 2 |  |  |
| Method 3 |  |  |



| E C      | If most had included "wet" compositions in the most had validated?  | Not Applicable |
|----------|---|----------------|
| 5.6      | If method includes "wet" compositing, is the method validated?  | Not Applicable |
| Comment: | Wet compositing was not performed.  |                |
| 5.7      | Presumptive positives are deemed positive if not culturally confirmed.  | Yes            |
| Comment: | Product disposition was based on initial screening results.   |                |
| 5.8      | Product disposition is determined on presumptive positives. [NOTE: If "wet" compositing is being used, describe how product disposition is determined on a presumptive positive.].  | Yes            |
| Comment: | Product disposition was based on initial screening results.   |                |
| 5.9      | Confirmation capability of the lab is validated.  | Not Applicable |
| Comment: | Product disposition was based on initial screening results.   |                |
| 5.10     | Facility has an Event Day (or Multiple Positive Day) program outlining procedures and corrective actions in the event that multiple presumptive positives are detected in one production day.   | Yes            |
| Comment: | The Justification for High Event Period Program defined requirements for handling event days.   |                |
| 6.1      | Product produced as 'intended for raw ground use' is accompanied with a Certificate of Analysis [COA] showing a negative result for each tested 'lot', at or before time of receiving. COA identifies the 'lots' covered by the test results, and is applicable to all product received in a shipment or order.       | Yes            |
| Comment: | in a shipment or order.  Product intended for raw ground use was accompanied by a certificate of analysis including   |                |
|          | negative E. coli O157:H7 results for each tested lot covered by the COA.  |                |
| 6.2      | All laboratory results are subject to a minimum of a dual review and approval process.  | Yes            |
| Comment: | Test results were subjected to a dual review process.   |                |
| 6.3      | Each Certificate of Analysis has its own unique number or identifier.   | Yes            |
| Comment: | The report number served as the unique identifier for each COA.   |                |
| 6.4      | COA's that are revised indicate a revision date, revision reason and are traceable to the original COA.   | Yes            |
| Comment: | The superseding process traced revised COAs back to the original COA. The original report was referenced and included the revision date and reason for revisions. Each report listed the report number, new report number, and revised label. An example from February 2024 was reviewed and demonstrated compliance. |                |
| 6.5      | The document clearly identifies that it is a Certificate of Analysis. List identifier.  | Yes            |



| Comment: | Test results were labeled as a Certificate of Analysis.  |     |
|----------|--|-----|
| 6.6      | The type of test and testing method used are listed on the Certificate of Analysis.  | Yes |
| Comment: | Test type and method were listed on each COA.  |     |
| 7        | The Auditor declares that he/ she does not have a conflict of interest with this auditee and the audit has been carried out independently and impartially. | Yes |
| Comment: | I, Rudy Hernandez, do not have a conflict of interest with this auditee.   |     |