

Generic E. coli Checklist

For regulatory requirements: 9 C.F.R. 310.25 or 381.94 – Note that poultry and swine slaughter establishments also have the option to test for an indicator organism other than generic *E.coli* if they choose (e.g. Salmonella, Aerobatic Plate Count).

Procedure Component		Description	Completed/Correct
1.	Sample collection	The samples are being collected at the correct location	V
		at the establishment.	Λ
2.	Location and	Samples are being taken from the correct locations on	
	technique	the carcasses.	
		Sampling technique used: Sponging method	
		Sampling technique used: Whole carcass rinse	
3.	Frequency	The samples are being taken at the correct frequency.	
4.	Random carcass	The establishment has a procedure for randomly	
	selection	selecting which carcass to sample.	
5.	Lab accreditation	The laboratory running the samples is accredited.	
6.	Records of test	The results are available on a graph or table to show the	
	results	most recent 13 test results.	
		The chart values are labeled using CFU/cm ² (carcass	
		swab) or CFU/mL (rinse fluid).	
		Records of test results are kept for at least 12 months.	
		The establishment is using statistical process control	
		(carcass sponge) or m/M values to determine if a value	
		is out of control. If not, they have defined what values	
		will indicate the process is out of control in a written	
		statement.	
7.	The written	The species from which samples are being collected	
	Generic <i>E. coli</i>	The location in the slaughter process that samples are	
	procedure must	being collected	
	contain all of the	The method for taking samples, including the procedure	
	following:	used:	
		 Where on carcass samples are being taken 	
		Who is taking the samples	
		The lab where the samples will be sent	
		The frequency at which samples are taken	
		The procedure used to randomly select the carcass that	
		will be sampled	

Inspector's Signature: X Date:

For Additional Information: MDA Dairy and Meat Inspection Division 651-201-6300 · MDA.MeatPoultryEgg@state.mn.us · 625 Robert Street North, Saint Paul, MN 55155-2538

Generic E. coli Checklist Quick Reference Sheet

- 1. **Predominant species:** Generic *E. coli* sample collection should be performed on the species that the plant slaughters in the greatest number. The following species (or categories) are eligible:
 - a. Cattle
 - b. Chickens
 - c. Ducks and guineas
 - d. Hide-on carcasses
 - e. Horses, mules, or other equines
 - f. Sheep and goats
 - g. Swine
 - h. Turkeys and geese

2. Location and technique

- a. Location in the plant's process: This refers to the place in the plant where the sample is collected.
 - i. Livestock samples: Collected after the carcasses have been in the cooler for 12 hours (no maximum time limit). If carcasses are inaccessible in the cooler, samples can be collected before the carcasses enter the cooler.
 - ii. Poultry samples: Collected at the end of the chiller or drip line or at the last readily accessible point prior to packaging or cut-up.
- b. Correct locations on the carcass:
 - i. Sponge method for cattle, sheep, goats, and equines: Flank, brisket, and rump
 - ii. Sponge method for cattle, sheep, goats, and equines/hide-on carcasses: Inside the flank, brisket, and rump
 - iii. Sponge method for swine: Belly, ham, and jowls
 - iv. Poultry: Whole bird rinse
- **3.** Frequency: All plants must collect 1 sample per week of slaughter beginning after June 1 each year until they have collected at least 13 good samples or have shown that their process is in control.
- **4. Random carcass selection:** Each plant must have a method for determining which carcass they will randomly sample. Examples of acceptable methods include, but are not limited to:
 - a. Drawing cards
 - b. Rolling dice
 - c. Computer-generated random numbers
- 5. Laboratory accreditation: The lab running the samples must be accredited. Most labs, if not all of the labs, the plants use are accredited. If they are running the samples in their plant, they are probably not accredited.

6. Records of test results

- a. Graph or chart: The plant must keep a running log of the test results in a graph or chart that indicates whether the sample passed or failed.
- b. Values in the graph or chart must be appropriately labeled.
 - i. Carcass sponge: CFU/cm²
 - ii. Poultry rinse: CFU/mL
- c. Results of testing must be kept for at least 12 months
- d. Determining if the process is in control:
 - i. The traditional m/M values can be used for chicken whole-bird rinses only
 - 1. m = 100 CFU/mL

- 2. M = 1000 CFU/mL
- ii. For carcass sponges, the plant can use two methods to determine their limits for assessing whether the process is in control:
 - 1. Use statistical process control from historical data to determine what acceptable limits are.
 - 2. If statistical process control is not feasible from historical data, choose limits based on what data is available and provide a written explanation for why those limits were chosen. This is most likely the case if the plant has had very few positive results in the past. Statistical process control can be used; however, it may not be accurate due to small sampling number. The most likely result will be that any positive test will be outside the acceptable limits.
- **7.** Written procedure: A written procedure must be available for review. The procedure must contain the following information:
 - a. The species from which samples are being collected
 - b. The location in the slaughter process that samples are being collected
 - c. The method for taking samples, including the procedure used
 - i. Where on carcass samples are being taken
 - ii. Who is taking the samples
 - iii. Random selection procedure
 - iv. The lab where the samples will be sent
 - d. The frequency at which samples are taken
 - e. The procedure used to randomly select the carcass that will be sampled