

You know what you formulated. Now verify the results with Expected Values



DAIRYLAND
Laboratories, Inc.

Knowing whether a feed result is acceptable shouldn't require manually reviewing every result against formulation targets. Our new Expected Values feature allows you to enter the target values used to formulate or accept a feed and automatically applies the allowable variations established by AAFCO to help determine whether the results fall within an acceptable range. Each result is then assigned a status based on where it falls relative to your expected values and the applicable AAFCO variation:

- **No flags.** All results are within the target values.
- **Out-of-Expected-Range.** At least one result is outside the expected range, but all values are within the allowable variation established by AAFCO.
- **Out-of-Spec.** At least one result falls outside the ranges for AAFCO allowable variation and was confirmed through additional testing.

These statuses are shown with your results (Figure 1) and included in email and mobile app notifications to help you quickly identify potential issues.

Use cases:

- Verify mixes against formulation targets
- Set acceptance criteria for minimum or maximum nutrient values
- Create consistent QA standards across products and batches

Setting up Expected Values is easy. Enter your targets when submitting an eSample through the Dairyland Labs Portal, mobile app, or simply send the feed tag with your sample. If you use Lot Management, your Expected Values can be saved to the feed and automatically applied to future samples from that lot.

The Expected Values feature is available with any package at no additional cost for all nutrients with an established AAFCO allowable variation.

Moisture · CP · Lysine · Crude fiber · Fat (EE or AH) · Ash
Salt · Ca · P · Mg · K · Na · Zn · Mn · Cu · Fe · Al · B

Expected Values

		Measured		Expected		AAFCO tolerance		
		value	Value	Min	Max	Min	Max	
CP	%As-Is	39.00	-	40.00	-	39.00	-	Below expected min
Crude Fiber	%As-Is	5.00	-	-	5.00	-	5.60	
Fat (EE)	%As-Is	3.00	-	5.00	-	4.50	-	#Low (Out-of-spec)
Ca	%As-Is	0.50	-	-	0.50	-	0.67	
P	%As-Is	0.25	-	-	0.25	-	0.30	
Na	%As-Is	0.15	-	-	0.15	-	0.18	
Moisture	%As-Is	15.00	-	12.00	15.00	10.56	16.80	

*Results were rechecked by the laboratory before publication.
Association of American Feed Control Officials (AAFCO). (2026).
Official Publication, Champaign, IL: AAFCO, p. 302

Figure 1. The Expected Values report provides an overview of the value measured in the lab, expected values from the feed tag, and AAFCO allowable variation. Results that may require additional attention are flagged.

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(608) 323-2123 | www.DairylandLabs.com | info@DairylandLabs.com