

# Analytical Report

## IRAN (34247), Iran

Description: This Sample (Corn Germ Meal) was outlier. Please check it with the master machine in Germany.  
 Material: Corn Germ Meal  
 Lab code: DE18-0000061-008  
 Date of delivery: 10 January 2018  
 Date of release: 11 January 2018  
 Crude protein (%)\*: 12.36  
 Crude protein (% as is): 13.32  
 Dry matter (%): 94.82

## Results of amino acid analysis

| Parameter               | Content (% as is) | Content (%)* | Content (% in CP) |
|-------------------------|-------------------|--------------|-------------------|
| Methionine              | 0.256             | 0.237        | 1.92              |
| Cystine                 | 0.259             | 0.241        | 1.946             |
| Methionine + Cystine ** | 0.491             | 0.456        | 3.688             |
| Lysine                  | 0.686             | 0.637        | 5.149             |
| Threonine               | 0.505             | 0.468        | 3.789             |
| Tryptophan              | 0.161             | 0.149        | 1.208             |
| Arginine                | 0.975             | 0.905        | 7.32              |
| Isoleucine              | 0.453             | 0.421        | 3.403             |
| Leucine                 | 1.107             | 1.028        | 8.312             |
| Valine                  | 0.791             | 0.735        | 5.942             |
| Histidine               | 0.468             | 0.434        | 3.512             |
| Phenylalanine           | 0.603             | 0.56         | 4.53              |
| Glycine                 | 0.719             | 0.668        | 5.4               |
| Serine                  | 0.647             | 0.601        | 4.858             |
| Proline                 | 0.793             | 0.736        | 5.951             |
| Alanine                 | 0.846             | 0.785        | 6.353             |
| Aspartic acid           | 1.007             | 0.935        | 7.564             |

(1/2)

\* DMS: Figures standardized to a dry matter content of 88% , CP = Crude protein, calibration based on Dumas combustion method (CP factor= 6.25)

\*\* estimated with separate calibration equation

NIRS calibration equation: agCORN09\_34065\_v1



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## Results of amino acid analysis

| Parameter              | Content (% as is) | Content (%)* | Content (% in CP) |
|------------------------|-------------------|--------------|-------------------|
| Glutamic acid          | 1.776             | 1.648        | 13.329            |
| NH3                    | 0.242             | 0.224        | 1.814             |
| Total including NH3 ** | 12.055            | 11.188       | 90.502            |
| Total without NH3 **   | 11.627            | 10.791       | 87.29             |

(2/2)

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### Standardized ileal digestible amino acid content (Broiler)

| Parameter               | Content (% as is) | Content (%)* |
|-------------------------|-------------------|--------------|
| Methionine              | 0.215             | 0.2          |
| Cystine                 | 0.166             | 0.154        |
| Methionine + Cystine ** | 0.359             | 0.333        |
| Lysine                  | 0.556             | 0.516        |
| Threonine               | 0.399             | 0.37         |
| Tryptophan              | 0.137             | 0.127        |
| Arginine                | 0.887             | 0.823        |
| Isoleucine              | 0.394             | 0.366        |
| Leucine                 | 0.974             | 0.904        |
| Valine                  | 0.689             | 0.639        |
| Histidine               | 0.398             | 0.369        |
| Phenylalanine           | 0.531             | 0.493        |

\* DMS: Figures standardized to a dry matter content of 88%

\*\* estimated with separate calibration equation



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