



This memo is to confirm that **RESPONSE[®] 4320**, manufactured by Solae, LLC, meets the requirements of **Appendix A 7 CFR to Parts 210, 220, 225 and 226** for Alternate Protein Products. These requirements are:

1) This product is processed so that some portion of the non-protein constituents of the food, have been removed. This product is a safe and suitable edible product produced from a plant source.

2) The biological quality of this protein is at least 80 percent that of casein, determined by Protein Digestibility Corrected Amino Acid Score (PDCAAS). The PDCAAS RESPONSE[®] 4320 is 1.0. Method to calculate is as follows:

1. Determine protein content.
2. Determine essential amino acid (EAA) content.
3. Determine amino acid ratios by dividing the EAA content by the reference EAA content (the reference EAA content we use is the FAO/WHO 2-5 year old amino acid pattern).
4. The lowest ratio is the uncorrected EAA score (typically 1.04 for Methionine + Cysteine).
5. Determine digestibility (97% for our soy proteins).
6. Calculate PDCAAS by multiplying uncorrected EAA score by the digestibility ($1.04 \times 0.97 = 1.0$). Scores over 1.0 are rounded down to 1.0.

3) This product contains at least 18 percent protein by weight when fully hydrated or formulated. The maximum hydration ratio allowed for RESPONSE[®] 4320 is 2.6 parts water to 1 part RESPONSE[®] 4320 to achieve 18% protein by weight.

4) The protein content of RESPONSE[®] 4320 is 64.8% (as-is).

Your company may make applications to FNS/USDA based on this confirmation.

John Hoffmann
Director of Quality Assurance

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