

# Technical Datasheet

**Analysis Name:** 5'-Mononucleotides by LC-MS/MS

**Method Number:** AOAC 2011.21

**Scope of Application:** Infant formulas, specialties, premix and raw materials.

**Description:** Dilution of powdered products in water. Addition of internal standards. Centrifugation with CFU filters. Mix with methanol (1:1). Determination of the nucleotides by UHPLC-MS/MS separation and detection.

**Sample Weight Required:** 50 g - Separate containers required for liquids

**Analytical Platform:** LC-MS/MS

**Special Information:** Provide Certificate of Analysis (COA) or estimated levels for premixes. Method is not applicable to yeast related samples.

Analyte Reported	Unit of Measure	Limit of Quantification	Reproducibility
Adenosine 5'-Monophosphate (5-AMP)	mg/100 g	0.2	15%
Cytidine 5'-Monophosphate (5-CMP)	mg/100 g	0.2	15%
Guanosine 5'-Monophosphate (5-GMP)	mg/100 g	0.2	15%
Inosine 5'-Monophosphate (5-IMP)	mg/100 g	0.2	15%
Uridine 5'-Monophosphate (5-UMP)	mg/100 g	0.2	15%