







Veterinærinstituttet

Background for the Codex Alimentarius' method criteria

- Advantages with criteria" approach :
 - greater flexibility
 - In some areas of food analysis there are many methods of analysis which are available, which meet Codex requirements as regards method characteristics, but which are not considered by CCMAS and the Commission because of time constraints on the Committee, and
 - The adoption of a more generalised approach would ensure that such methods are brought into the Codex system and does not disadvantage developments being undertaken elsewhere in the analytical community.





























APPENDIX 1: AOAC SMPR 2011.003	: JOURNAL OF AOAC INTE	RNATIONAL VOL. 95	, NO. 2, 2012 1	
INFANT FORMULA AND ADULT NUTRITIONALS				
AOAC SMPR 2011.003	4 Method Performance Requirements ^a			
Standard Method Performance Requirements for Vitamin A in Infant Formula and Adult/Pediatric Nutritional Formula	Analytical range	7.0-38	7.0-382.6 ^b	
	Limit of detection (LOD)	=2.	≤2.0 ^b	
	Limit of quantitation (LOQ)	≤0.0	≤0.01 [*]	
	Repeatability (RSD,)	7 ^b	≤8%	
Intended Use: Global Dispute Resolution Method		10 ^b		
		100 ⁶		
1 Applicability		300*		
Determination of vitamin A in all forms of infant, adult, and/or pediatric formulas (powders, ready-to-feed liquids, and	Recovery	90 to 110% of mean spiked recovery over the range of the assay		
liquid concentrates). For the purpose of this SMPR, vitamin A	Reproducibility (RSD _R)	10 ^b	≤16%	
is defined as 13-cis and all-trans retinol (CAS 68-26-8), retinyl		100 ⁶		
esters [retinyl palmitate (CAS 79-81-2) and retinyl acetate (CAS 127-47-9)].		200 ^b		
		300 ⁶		
2 Analytical Technique		383 ^b		
Any analytical technique that meets the following method performance requirements is acceptable.	* Concentrations apply to (1) 'ready-to-feed" liquids "as is"; (2) recon- stituted powders (25 g into 200 mL water); and (3) liquid concentrates diluted 1:1 by weight.			
3 Definitions	^b µg/100 g expressed as 13-cls retinoi and all-trans retinoi in reconsti- tuted final product.			
Adult/pediatric formula.—Nutritionally complete, specially formulated food, consumed in liquid form, which may constitute the sole source of nourishment (AOAC SPIFAN, 2010), made				
from any combination of milk, soy, rice, whey, hydrolyzed protein, starch, and amino acids, with and without intact protein. <i>Infant formula.</i> —Breast-milk substitute specially	5 System Suitability Tests and/or Analytical Quality Control			
manufactured to satisfy, by itself, the nutritional requirements of	Suitable methods will include blank check samples and check standards at the lowest point and midrange point of the analytical range.			
infants during the first months of life up to the introduction of				
appropriate complementary feeding (Codex Standard 72-1981),				
protein, starch, and amino acids, with and without intact protein.	6 Reference Material	s)		











