

Appendix V

METHODS OF ANALYSIS FOR CONSIDERATION BY RELEVANT COMMITTEES

CODEX COMMITTEE ON NUTRITION AND FOODS FOR SPECIAL DIETARY USES

VITAMIN B3: NICOTINAMIDE

Commodity	Provision	Method	Principle	Type	Propose to remove or Change	Possible method Proposed
Special foods	Nicotinamide for milk-based foods	AOAC 944.13	Microbioassay	II	Yes (III)	HPLC method like EN 15652 (Type II)

VITAMIN B3: NIACIN

Commodity	Provision	Method	Principle	Type	Propose to remove or Change	Possible method Proposed
Infant formula	Niacin	AOAC 985.34 (niacin (preformed) and nicotinamide)	Microbioassay And turbidimetry	III	No	HPLC method like EN 15652 (Type II)

VITAMIN B5: PANTOTHENIC ACID

Commodity	Provision	Method	Principle	Type	Propose to remove or Change	Possible method Proposed
Follow-up formula	Pantothenic acid	AOAC 992.07 Measures total pantothenate : free pantothenic acid + bounded forms	Microbioassay	II	II or III	AOAC 2012.16/ISO 20639 UHPLC MS/MS (Type I or II)

VITAMIN B6: PYRIDOXINE

Commodity	Provision	Method	Principle	Type	Propose to remove or Change	Possible method Proposed
Infant formula	Vitamin B6	AOAC 985.32	Microbioassay	III	---	HPLC-Fluorescence like AOAC 2004.07 or EN 14164 (Type II)
Infant formula	Vitamin B6	CEN 14166 (Aggregates free and bound pyridoxal, pyridoxine and pyridoxine and measures as pyridoxine)	Microbioassay	III	----	HPLC – Fluorescence like AOAC 2004.07 or EN 14164 (Type II)
Special foods	Vitamin B6	AOAC 961.15	Microbioassay	II	type III	HPLC-Fluorescence like AOAC 2004.07 or EN 14164 (Type II) and EN 14663 (includes glycosylated forms) (Free and bound hosphorylated and glycosylated forms measured as the individual forms pyridoxal, pyridoxine and pyridoxamine), HPLC fluorometric method, (Type III)

VITAMIN B12: COBALAMIN

Commodity	Provision	Method	Principle	Type	Propose to remove or Change	Possible method Proposed
Special foods	Vitamin B12	AOAC 952.20	Microbioassay	II	Type III	HPLC-UV AOAC 2011.10 / ISO 20634 (Type II)
Infant Milk formula	Vitamin B12	AOAC 986.23	Bioassay-Turbidimetric	II	Type III	HPLC UV AOAC 2011.10 / ISO 20634 (Type II)

VITAMIN D: ERGOCALCIFEROL (D2) & cholecalciferol (D3), OTHERS

Commodity	Provision	Method	Principle	Type	Propose to remove or Change	Possible method Proposed
Special foods	Vitamin D	AOAC 936.14	Rat bioassay	IV	----	HPLC method like EN 12821 (Type II)