

RJ Analytical LLC

1559 West 2740 North Suite B, Pleasant View, UT 84404 Phone: 801-710-1541

Vitamin A & Carotenoids		
Analyte	Technique	Method
Retinyl Acetate	HPLC	RJA-VitA
Retinyl Palmitate		
beta-Carotene		

Vitamin B & Water-Soluble Vitamins		
Analyte	Technique	Method
PABA	HPLC	RJA-VitB
Thiamine HCl (Vitamin B1)		
Riboflavin 5'-phosphate		
Niacin (Vitamin B3), Nicotinic acid		
Niacinamide, Nicotinamide		
Pantothenic acid (Vitamin B5)		
Pyridoxine HCl (Vitamin B6)	HPLC	RJA-VitB2
Riboflavin (Vitamin B2)	HPLC	RJA-VitB65P
Pyridoxal 5'-Phosphate	HPLC	RJA-FAB
Folic Acid	HPLC	
Biotin	HPLC	

Vitamin C		
Analyte	Technique	Method
Ascorbic Acid (Vitamin C)	Titration	RJA-VitC

Vitamin D		
Analyte	Technique	Method
Cholecalciferol (Vitamin D3)	UPLC-PDA-MS	RJA-VitD

Vitamin E		
Analyte	Technique	Method
Tocopherol (Vitamin E)	HPLC	RJA-VitE
Tocopherol acid succinate	HPLC	
Tocopheryl acetate	HPLC	

Amino Acids		
Analyte	Technique	Method
Phenylalanine	HPLC	RJA-AminoAcid
Tryptophan	HPLC	
Leucine	HPLC	
Valine	HPLC	
Isoleucine	HPLC	
Tyrosine	HPLC	
Taurine	HPLC	
Cysteine	HPLC	
Glycine	HPLC	
Glutamine	HPLC	
Serine	HPLC	
Glutathione	HPLC	
Arginine	HPLC	
Ornithine	HPLC	

Other Compounds		
Analyte	Technique	Method
Quercetin	HPLC	RJA-Flavonoids
Rutin	HPLC	
Baicalin	HPLC	
Caffeine	HPLC	RJA-Caffeine
Coenzyme Q10	HPLC	RJA-CoQ10
Glucosamine	HPLC	AOAC 2005.01
alpha-Lipoic Acid	HPLC	
Curcumin	HPLC	

Elements and Heavy Metals		
Analyte	Technique	Method
Mercury (Hg)	DMA	DMA-EPA
Potassium (K)	FAA	RJA-FAA
Sodium (Na)	FAA	
Arsenic (As)	ICP-MS	RJA-ICP-MS
Cadmium (Cd)	ICP-MS	
Lead (Pb)	ICP-MS	
Aluminum (Al)	ICP-OES	RJA-ICP-OES
Antimony (Sb)	ICP-OES	
Barium (Ba)	ICP-OES	
Beryllium (Be)	ICP-OES	
Boron (B)	ICP-OES	
Calcium (Ca)	ICP-OES	
Chromium (Cr)	ICP-OES	
Cobalt (Co)	ICP-OES	
Copper (Cu)	ICP-OES	
Iron (Fe)	ICP-OES	
Magnesium (Mg)	ICP-OES	
Manganese (Mn)	ICP-OES	
Molybdenum (Mo)	ICP-OES	
Nickel (Ni)	ICP-OES	
Selenium (Se)	ICP-OES	
Silicon (Si)	ICP-OES	
Silver (Ag)	ICP-OES	
Thallium (Tl)	ICP-OES	
Titanium (Ti)	ICP-OES	
Vanadium (V)	ICP-OES	
Zinc (Zn)	ICP-OES	

Presence Tests		
Analyte	Technique	Method
Chloride (Cl-)	Identity	USP <191>
Sodium (Na+)	Identity	
Citrate	Identity	
Potassium (K+)	Identity	
Iodide (I-)	Identity	
Zinc (Zn ²⁺)	Identity	
Sulfate	Identity	

Other		
Analyte	Technique	Method
FTIR	FT-IR Spectra Comparison	USP <197>
pH	Electrometric	USP <791>
Osmolality	Vapor Pressure Osmometry	VP Osmometer
Titrateable Acidity	Titration	RJA-TA
Powder Density / Compressibility	Gravimetric	USP <616>
Liquid Density	Gravimetric	RJA-Density
Loss on Drying	Gravimetric	USP <731>
Capsule/Tablet Weight	Gravimetric	RJA-CapWeight
Visual Inspection	Organoleptic	RJA-Visual
Alpha Lipoic Acid	UV	USP <197U>
Protein Content	Vis	Hach 10242

Microbiological		
Analyte	Technique	Method
Total Count	Microbiological	Total Count
Coliform Count	Microbiological	Coliform Count
E. coli	Microbiological	E. Coli
Yeast / Mold Count	Microbiological	Yeast / Mold Count
Staphylococcus aureus	Microbiological	Staphylococcus aureus
Salmonella (PF)	Microbiological	Salmonella
Standard Micro Panel (above 6 analytes)		
Bile-tolerant Gram-negative	Microbiological	Bile-tolerant Gram-negative
Enterobacteriaceae	Microbiological	Enterobacteriaceae
Compressed air testing	Microbiological	Total Count

Environmental Water Quality		
Analyte	Technique	Method
Colilert		Colilert
Ammonia		Hach 10205
Nitrate		Hach 10206
Nitrite		Hach 10207
Ortho- and Total Phosphorus		Hach 10209/10210
Total Kjeldahl Nitrogen		Hach 10242
Dissolved Oxygen (DO)	Electrometric	SM 4500 (O) G
Biochemical Oxygen Demand (BOD)		SM 5210 B
Total Settable Solids (TSS)	Gravimetric	SM 2540 D

Drinking Water Quality		
Analyte	Technique	Method
Conductivity		Conductivity
Chloride (Cl-)		Hach 8113