

## Cereals



# Reagents and standards for the Cereals Industry



As per Official Methods of Analysis of AOAC International, 19th Edition, 2012 Volume 2. Dr George W. Latimer, Jr.

## AOAC Official Method 944.02 Iron in Flour

Chapter	Product No.	Description	Pack Size
32.1.09A.g	SA2F	Sodium Acetate, 2M	1L

## AOAC Official Method 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods

Chapter	Product No.	Description	Pack Size
32.1.17C.i	S26001	Analytical Volumetric Solution Sodium Hydroxide 6M, 6N	1L

## AOAC Official Method 992.16 Total Dietary Fiber

Chapter	Product No.	Description	Pack Size
32.1.18C.b	PBS7B025	Phosphate Buffer Saline pH7.00	250ml
32.1.18C.d	DBC06-960	Dissolution Media Acetate Buffer pH 4.5 Concentrate (Dilute to 25L) (6x961.5ml)	6X 1l

## AOAC Official Method 939.03 Sugars (Reducing and Nonreducing) in Flour

Chapter	Product No.	Description	Pack Size
32.1.21A.f	T20101	Analytical Volumetric Solution Sodium Thiosulphate 0.1N, 0.1M	1L

## AOAC Official Method 945.37 Starch in Flour

Chapter	Product No.	Description	Pack Size
32.1.28A	CACLSS01	Calcium Chloride Stock Solution	1L

## AOAC Official Method 956.03 Bromates and Iodates in White and Whole Wheat Flour

Chapter	Product No.	Description	Pack Size
32.1.32C.c	S20501	Analytical Volumetric Solution Sodium Hydroxide 0.5N, 0.5M	1L
32.1.32C.d	SU2200J	Analytical Volumetric Solution Sulphuric Acid 4.0N, 2.0M	2.5L
32.1.32C.e	1070502	European Pharmacopoeia Reagent Potassium iodide Solution	1L
32.1.32C.f	AMBS01	Ammonium Molybdate Solution	100ml

### AOAC Official Method 932.04 Diastatic Activity of Flour

Chapter	Product No.	Description	Pack Size
32.1.34A	4001400	European Pharmacopoeia Reagent Acetate Buffer Solution pH4.6	1L

### AOAC Official Method 2002.01 Measurement of $\alpha$ -Amylase Activity in White Wheat Flour, Milled Malt, and Microbial Enzyme Preparations

Chapter	Product No.	Description	Pack Size
32.1.35A.C.c	S24001	Analytical Volumetric Solution Sodium Hydroxide 4M, 4N	1L
32.1.35A.C.e	H24001	Analytical Volumetric Solution Hydrochloric Acid 4N, 4M	1L

### AOAC Official Method 2006.08 Methylcellulose and Hydroxypropyl Methylcellulose Food Gums in Food and Food Products

Chapter	Product No.	Description	Pack Size
32.1.42C.h	S26001	Analytical Volumetric Solution Sodium Hydroxide 6M, 6N	1L

### AOAC Official Method 2011.25 Insoluble, Soluble, and Total Dietary Fiber in Foods

Chapter	Product No.	Description	Pack Size
32.1.43C.j	S24001	Analytical Volumetric Solution Sodium Hydroxide 4M, 4N	1L
32.1.43C.l	CH22001	Analytical Volumetric Solution Acetic acid 2.0N, 2.0M	1L
32.1.43C.m	1040	pH Buffer Solution pH4.00 $\pm$ 0.01 @20°C	1L
32.1.43C.m	1070	pH Buffer Solution pH7.00 $\pm$ 0.01 @20°C	1L
32.1.43C.m	1100	pH Buffer Solution pH10.00 $\pm$ 0.01 @20°C	1L

### AOAC Official Method 996.01 Fat (Total, Saturated, Unsaturated, and Monosaturated) in Cereal Products

Chapter	Product No.	Description	Pack Size
32.2.02A.C.c	H28005	Analytical Volumetric Solution Hydrochloric Acid 8.0N, 8.0M	5L
32.2.02A.C.g	S20501	Analytical Volumetric Solution Sodium Hydroxide 0.5N, 0.5M	1L

### AOAC Official Method 996.11 Starch (Total) in Cereal Products

Chapter	Product No.	Description	Pack Size
32.2.05A.C.a	H21001	Analytical Volumetric Solution Hydrochloric Acid 1.0N, 1.0M	1L
32.2.05A.C.d	H22001	Analytical Volumetric Solution Hydrochloric Acid 2.0N, 2.0M	1L
32.2.05A.C.f	USP861	Mobile Phase Buffer pH 4.5 - Sodium Acetate Trihydrate	1L

### AOAC Official Method 992.28 (1 $\rightarrow$ 3)(1 $\rightarrow$ 4)-Beta-D-Glucans in Oat and Barley Fractions and Ready-to-Eat Cereals

Chapter	Product No.	Description	Pack Size
32.2.06C.c	S20101	Analytical Volumetric Solution Sodium Hydroxide 0.1N, 0.1M	1L

## AOAC Official Method 995.16 $\beta$ -D-Glucan in Oats

Chapter	Product No.	Description	Pack Size
32.2.10C.f	H22001	Analytical Volumetric Solution Hydrochloric Acid 2.0N, 2.0M	1L
32.2.10C.f	S22001	Analytical Volumetric Solution Sodium Hydroxide 2.0N, 2.0M	1L

## AOAC Official Method 986.11 Phytate in Foods

Chapter	Product No.	Description	Pack Size
32.5.18C.b	NACL2011	Analytical Volumetric Solution Sodium Chloride 0.1N, 0.1M	1L
32.5.18C.c	SU25001	Analytical Volumetric Solution Sulphuric Acid 10.0N, 5.0M	1L
32.5.18C.d	SU20501	Analytical Volumetric Solution Sulphuric Acid 1.0N, 0.5M	1L

## Reagecon's Spectrophotometry Standards

### Linearity Standards @ 235, 257, 313 & 350nm

Product No.	Description	Concentration	Pack Size
RSPEC1022	Potassium Dichromate Linearity Set With Blank in Sealed Cuvettes	0mg/l, 20mg/l, 40mg/l, 60mg/l, 80mg/l. 100mg/l	6 x Permanently sealed UV Cuvettes
RSPEC0022	Potassium Dichromate Absorbance/Transmission Standard	20mg/l	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0023	Potassium Dichromate Absorbance/Transmission Standard	40mg/l	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0024	Potassium Dichromate Absorbance/Transmission Standard	60mg/l	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0025	Potassium Dichromate Absorbance/Transmission Standard	80mg/l	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0026	Potassium Dichromate Absorbance/Transmission Standard	100mg/l	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC00511	Blank - 0.001M Perchloric Acid	0mg/l	100ml Amber Bottle
RSPEC00221	Potassium Dichromate Absorbance/Transmission Standard	20mg/l	100ml Amber Bottle
RSPEC00231	Potassium Dichromate Absorbance/Transmission Standard	40mg/l	100ml Amber Bottle
RSPEC00241	Potassium Dichromate Absorbance/Transmission Standard	60mg/l	100ml Amber Bottle
RSPEC00251	Potassium Dichromate Absorbance/Transmission Standard	80mg/l	100ml Amber Bottle
RSPEC00261	Potassium Dichromate Absorbance/Transmission Standard	100mg/l	100ml Amber Bottle

## Linearity Standards @ 213 & 261nm

Product No.	Description	Concentration	Pack Size
RSPEC1027	Nicotinic Acid Linearity Set With Blank in Sealed Cuvettes	0mg/l, 6mg/l, 12mg/l, 18mg/l, 24mg/l.	5 x Permanently sealed UV Cuvettes (including blank)
RSPEC0027	Nicotinic Acid Absorbance/Transmission Standard	6mg/l	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0028	Nicotinic Acid Absorbance/Transmission Standard	12mg/l	2x Permanently Sealed UV Cuvettes (including blank)
RSPEC0029	Nicotinic Acid Absorbance/Transmission Standard	18mg/l	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0030	Nicotinic Acid Absorbance/Transmission Standard	24mg/l	2 x Permanently Sealeds UV Cuvette (including blank)
RSPEC00521	Blank -- 0.1M Hydrochloric Acid	0mg/l	100ml Amber Bottle
RSPEC00271	Nicotinic Acid Absorbance/Transmission Standard	6mg/l	100ml Amber Bottle
RSPEC00281	Nicotinic Acid Absorbance/Transmission Standard	12mg/l	100ml Amber Bottle
RSPEC00291	Nicotinic Acid Absorbance/Transmission Standard	18mg/l	100ml Amber Bottle
RSPEC00301	Nicotinic Acid Absorbance/Transmission Standard	24mg/l	100ml Amber Bottle

## Wavelength Standards (certified at 0.1nm, 0.2nm, 0.5nm, 1.0nm & 2.0nm slit widths)

Product No.	Description	Nominal Peak Wavelengths (0.2nm Slit Width)	Pack Size
RSPEC0001	Didymium Solution UV and Visible Wavelength Standard 298nm to 865nm	298nm, 328.8nm, 353.8nm, 443.8nm, 468.5nm, 481.3nm, 511.5nm, 521.6nm, 574.8nm, 731.4nm, 739.6nm, 794nm, 801.1nm, 865nm	1 x Permanently Sealed UV Cuvette
RSPEC0008	Samarium Solution UV and Visible Wavelength Standard 235nm to 480nm	235nm, 278.8nm, 290.1nm, 305.2nm, 317.4nm, 331.6nm, 344.4nm, 362.2nm, 374.1nm, 390.4nm, 401.1nm, 415.3nm, 463.4nm, 478.6nm	1 x Permanently Sealed UV Cuvette
RSPEC0015	Holmium Oxide Solution UV and Visible Wavelength Standard 240nm to 640nm	240.8nm, 249.6nm, 278nm, 286.8nm, 333nm, 345.4nm, 361.1nm, 385.2nm, 416nm, 451.8nm, 467.6nm, 485nm, 536.3nm, 640.2nm	1 x Permanently Sealed UV Cuvette
RSPEC00011	Didymium Solution UV and Visible Wavelength Standard 298nm to 865nm	298nm, 328.8nm, 353.8nm, 443.8nm, 468.5nm, 481.3nm, 511.5nm, 521.6nm, 574.8nm, 731.4nm, 739.6nm, 794nm, 801.1nm, 865nm	100ml Amber Bottle
RSPEC00081	Samarium Solution UV and Visible Wavelength Standard 235nm to 480nm	235nm, 278.8nm, 290.1nm, 305.2nm, 317.4nm, 331.6nm, 344.4nm, 362.2nm, 374.1nm, 390.4nm, 401.1nm, 415.3nm, 463.4nm, 478.6nm	100ml Amber Bottle
RSPEC00151	Holmium Oxide Solution UV and Visible Wavelength Standard 240nm to 640nm	240.8nm, 249.6nm, 278nm, 286.8nm, 333nm, 345.4nm, 361.1nm, 385.2nm, 416nm, 451.8nm, 467.6nm, 485nm, 536.3nm, 640.2nm	100ml Amber Bottle

## Stray Light Standards

Product No.	Description	Cut Off	Packed in
RSPEC0036	Stray Light Inorganic Cut-off filter - Sodium Nitrite	390nm	2 x Permanently sealed UV Cuvettes (including blank)
RSPEC0037	Stray Light Inorganic Cut-off filter - Potassium Iodide	260nm	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0038	Stray Light Inorganic Cut-off filter - Sodium Iodide	260nm	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0039	Stray Light Inorganic Cut-off filter - Lithium Carbonate	227nm	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0040	Stray Light Inorganic Cut-off filter - Sodium Chloride	205nm	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC0041	Stray Light Inorganic Cut-off filter - Potassium chloride	200nm	2 x Permanently Sealed UV Cuvettes (including blank)
RSPEC00541	Stray Light Blank - Aqueous		100ml Amber Bottle
RSPEC00361	Stray Light Inorganic Cut-off filter - Sodium Nitrite	390nm	100ml Amber Bottle
RSPEC00371	Stray Light Inorganic Cut-off filter - Potassium Iodide	260nm	100ml Amber Bottle
RSPEC00381	Stray Light Inorganic Cut-off filter - Sodium Iodide	260nm	100ml Amber Bottle
RSPEC00391	Stray Light Inorganic Cut-off filter - Lithium Carbonate	227nm	100ml Amber Bottle
RSPEC00401	Stray Light Inorganic Cut-off filter - Sodium Chloride	205nm	100ml Amber Bottle
RSPEC00411	Stray Light Inorganic Cut-off filter - Potassium chloride	200nm	100ml Amber Bottle

## Bandwidth Standard

Product No.	Description	Certified Value	Packed in
RSPEC1031	Toluene in Hexane Bandwidth Standard	Ratio of 268.7nm peak to 266.8nm trough	2 x Permanently sealed UV Cuvettes (including blank)
RSPEC00311	Bandwidth Standard –Toluene in Hexane	Ratio of 268.7nm peak to 266.8nm trough	100ml Amber Bottle
RSPEC00531	Bandwidth Standard – Blank	Ratio of 268.7nm peak to 266.8nm trough	100ml Amber Bottle

# Reagecon's Conductivity Standards

Product No.	Description	Pack Size
CSKC13	1.30µS/cm @ 25°C	250ml
CSKC136	1.30µS/cm @ 25°C	6x250ml
CSKC3	3µS/cm @ 25°C	250ml
CSKC5	5µS/cm @ 25°C	500ml
CSKC10	10µS/cm @ 25°C	500ml
CSKC20	20µS/cm @ 25°C	500ml
CSKC238	23.8µS/cm @ 25°C	500ml
CSKC25	25µS/cm @ 25°C	500ml
CSKC50	50µS/cm @ 25°C	500ml
CSKC84	84µS/cm @ 25°C	500ml
CSKC100	100µS/cm @ 25°C	500ml
CSKCS	147µS/cm @ 25°C	500ml
CSKC150	150µS/cm @ 25°C	500ml
CSKC185	185µS/cm @ 25°C	500ml
CSKC200	200µS/cm @ 25°C	500ml
CSKC250	250µS/cm @ 25°C	500ml
CSKC300	300µS/cm @ 25°C	500ml
CSKC400	400µS/cm @ 25°C	500ml
CSKC500	500µS/cm @ 25°C	500ml
CSKC718	718µS/cm @ 25°C	500ml
CSKC1000	1000µS/cm @ 25°C	500ml
CSKCL	1413µS/cm @ 25°C	500ml
CSKC2M	2000µS/cm @ 25°C	500ml
CSKC2500	2500µS/cm @ 25°C	500ml
CSKC3M	3000µS/cm @ 25°C	500ml
CSKC5M	5,000µS/cm @ 25°C	500ml
CSKC7M	7,000µS/cm @ 25°C	500ml
CSKC10M	10,000µS/cm @ 25°C	500ml
CSKC12880	12,880µS/cm @ 25°C	500ml
CSKC20M	20,000µS/cm @ 25°C	500ml
CSKC30M	30,000µS/cm @ 25°C	500ml
CSKC40M	40,000µS/cm @ 25°C	500ml
CSKC50M	50,000µS/cm @ 25°C	500ml
CSKC60M	60,000µS/cm @ 25°C	500ml
CSKC80M	80,000µS/cm @ 25°C	500ml
CSKC100M	100,000µS/cm @ 25°C	500ml
CSKC111800	111,800µS/cm @ 25°C	500ml
CSKC150M	150,000µS/cm @ 25°C	500ml
CSKC200M	200,000µS/cm @ 25°C	500ml
CSKC300M	300,000µS/cm @ 25°C	500ml
CSKC350M	350,000µS/cm @ 25°C	500ml
CSKC400M	400,000µS/cm @ 25°C	500ml
CSKC450M	450,000µS/cm @ 25°C	500ml
CSKC500M	500,000µS/cm @ 25°C	500ml



## Pesticide Standard's in Cereals

Product No.	Description	Pack Size
REPET180	Pesticide Single Component Standard 1000ug/ml Chlorpyrifos	1ml
REPET181	Pesticide Single Component Standard 1000ug/ml Chlorpyrifosmethyl	1ml
REPET148	Pesticide Single Component Standard 1000ug/ml Lindane (HCHgamma)	1ml
REPET119	Pesticide Single Component Standard 1000ug/ml cisPermethrin	1ml
REPET172	Pesticide Single Component Standard 1000ug/ml transPermethrin	1ml
REPET190	Pesticide Single Component Standard 1000ug/ml Pyrimiphosmethyl	1ml