

NEW

Spectrophotometry Standards

Manufactured by Reagecon

Reagecon
Delivering the Correct Result

Why use Reagecon's Spectrophotometry Standards?

Commercial Benefits	Technical Benefits
<ul style="list-style-type: none">• Ready to use• Permanently sealed cuvettes available• No Waste• No liquid Handling• Can be used with all UV-VIS Spectrophotometry	<ul style="list-style-type: none">• NIST Traceable• Produced with salts sourced directly from NIST where applicable• All standards certified at multiple slit widths• Certified measurement uncertainties• Consistency of product -- Independent, traceable, certified.• Certificates of Analysis and SDS available online



The product range includes:-

- **Linearity Standards**
- **Wavelength Standards**
- **Stray Light Standards**
- **Bandwidth Standard**

These products are prepared gravimetrically on a weight/weight basis. Both solute and solvent are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for weighing, (ref. 265C) and the resulting certificate is issued in accordance with the requirements of ISO/IEC 17025. The certified values of each standard are verified using a high performance spectrophotometry calibrated with NIST traceable, ISO Guide 34 Certified Standards.

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061 472622

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sales@reagecon.ie

Online sales
www.reagecon.com

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Linearity Standards @ 235, 257, 313 and 350nm

Code	Description	Concentration	Packed in
RSPEC1022	Potassium Dichromate Linearity Set With Blank in Sealed Cuvettes	0mg/l, 20mg/l, 40mg/l, 60mg/l, 80mg/l, 100mg/l	Set of six permanently sealed UV Cuvettes
RSPEC0051	Blank -- 0.001M Perchloric Acid	0mg/l	Single Permanently Sealed UV Cuvette
RSPEC0022	Potassium Dichromate Absorbance/Transmission Standard 20mg/l	20mg/l	Single Permanently Sealed UV Cuvette
RSPEC0023	Potassium Dichromate Absorbance/Transmission Standard 40mg/l	40mg/l	Single Permanently Sealed UV Cuvette
RSPEC0024	Potassium Dichromate Absorbance/Transmission Standard 60mg/l	60mg/l	Single Permanently Sealed UV Cuvette
RSPEC0025	Potassium Dichromate Absorbance/Transmission Standard 80mg/l	80mg/l	Single Permanently Sealed UV Cuvette
RSPEC0026	Potassium Dichromate Absorbance/Transmission Standard 100mg/l	100mg/l	Single Permanently Sealed UV Cuvette

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Code	Description	Concentration	Packed in
RSPEC00511	Blank -- 0.001M Perchloric Acid	0mg/l	100ml Amber Bottle
RSPEC00221	Potassium Dichromate Absorbance/Transmission Standard 20mg/l	20mg/l	100ml Amber Bottle
RSPEC00231	Potassium Dichromate Absorbance/Transmission Standard 40mg/l	40mg/l	100ml Amber Bottle
RSPEC00241	Potassium Dichromate Absorbance/Transmission Standard 60mg/l	60mg/l	100ml Amber Bottle
RSPEC00251	Potassium Dichromate Absorbance/Transmission Standard 80mg/l	80mg/l	100ml Amber Bottle
RSPEC00261	Potassium Dichromate Absorbance/Transmission Standard 100mg/l	100mg/l	100ml Amber Bottle

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Linearity Standards @ 213 and 261nm

Code	Description	Concentration	Packed in
RSPEC1027	Nicotinic Acid Linearity Set With Blank in Sealed Cuvettes	0mg/l, 6mg/l, 12mg/l, 18mg/l, 24mg/l.	Set of Five permanently sealed UV Cuvettes
RSPEC0052	Blank -- 0.1M Hydrochloric Acid	0mg/l	Single Permanently Sealed UV Cuvette
RSPEC0027	Nicotinic Acid Absorbance/Transmission Standard 20mg/l	6mg/l	Single Permanently Sealed UV Cuvette
RSPEC0028	Nicotinic Acid Absorbance/Transmission Standard 40mg/l	12mg/l	Single Permanently Sealed UV Cuvette
RSPEC0029	Nicotinic Acid Absorbance/Transmission Standard 60mg/l	18mg/l	Single Permanently Sealed UV Cuvette
RSPEC0030	Nicotinic Acid Absorbance/Transmission Standard 80mg/l	24mg/l	Single Permanently Sealed UV Cuvette

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Linearity Standards @ 213 and 261nm

Code	Description	Concentration	Packed in
RSPEC00521	Blank -- 0.1M Hydrochloric Acid	0mg/l	100ml Amber Bottle
RSPEC00271	Nicotinic Acid Absorbance/Transmission Standard 20mg/l	6mg/l	100ml Amber Bottle
RSPEC00281	Nicotinic Acid Absorbance/Transmission Standard 40mg/l	12mg/l	100ml Amber Bottle
RSPEC00291	Nicotinic Acid Absorbance/Transmission Standard 60mg/l	18mg/l	100ml Amber Bottle
RSPEC00301	Nicotinic Acid Absorbance/Transmission Standard 80mg/l	24mg/l	100ml Amber Bottle

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Wavelength Standards (certified at 0.1nm, 0.2nm, 0.5nm, 1.0nm, 2.0nm and 5nm slit widths)

Code	Description	Nominal Peak Wavelengths (0.2nm Slit Width)	Packed in
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	Single 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	Single 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	Single 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

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Stray Light Standards

Code	Description	Cut Off (nm)	Packed in
RSPEC0036	Stray Light Inorganic Cut-off filter -- Sodium Nitrite	390nm	Set of Five permanently sealed UV Cuvettes
RSPEC0037	Stray Light Inorganic Cut-off filter -- Potassium Iodide	260nm	Single Permanently Sealed UV Cuvette
RSPEC0038	Stray Light Inorganic Cut-off filter -- Sodium Iodide	260nm	Single Permanently Sealed UV Cuvette
RSPEC0039	Stray Light Inorganic Cut-off filter -- Lithium Carbonate	227nm	Single Permanently Sealed UV Cuvette
RSPEC0040	Stray Light Inorganic Cut-off filter -- Sodium Chloride	205nm	Single Permanently Sealed UV Cuvette
RSPEC0041	Stray Light Inorganic Cut-off filter -- Potassium chloride	200nm	Single Permanently Sealed UV Cuvette
RSPEC0054	Stray Light Blank -- Aqueous		Single Permanently Sealed UV Cuvette

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Stray Light Standards

Code	Description	Cut Off (nm)	Packed in
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
RSPEC00541	Stray Light Blank -- Aqueous		100ml Amber Bottle

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Bandwidth Standard

Code	Description	Certified Value	Packed in
RSPEC1031	Toluene in Hexane Bandwidth Standard With Blank in Sealed Cuvettes	Ratio of 268.7nm peak to 266.8nm trough	Set of two permanently sealed UV Cuvettes
RSPEC0031	Bandwidth Standard --- Toluene in Hexane	Ratio of 268.7nm peak to 266.8nm trough	Single Permanently Sealed UV Cuvette
RSPEC0053	Bandwidth Standard --- Blank	Ratio of 268.7nm peak to 266.8nm trough	Single Permanently Sealed UV Cuvette
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

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