

Who Do I Turn To?

Chromatography resources

Rita Steed

Columns and Supplies Technical Support

April 15, 2021

Chemical Analysis, Life Sciences, and Diagnostics | Agilent



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Cannabis & Hemp Testing

Cell Analysis

Clinical Diagnostics

Clinical Research

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Environmental

Food Testing & Agriculture

Forensics

Genomics

Geochemistry, Mining & Metals

Homeland Security

Materials Testing & Research

Metabolomics

Pathology

PFAS Testing

Pharmaceutical Small Molecules

Proteomics

Semiconductor Analysis

Specialty Chemicals

Vacuum Solutions

Outline

Columns and supplies

HPLC

- Small molecule
- Polymers
- Biomolecules, Glycans
- Chiral

GC

Sample preparation

Spectroscopy

Standards

Additional resources

Instrument

Education and training

Service

Ordering

How to reach us

Appendix

LC Columns and Supplies Resources

LC Handbook: [LC-Handbook-Complete-2.pdf \(Agilent.com\)](#)

LC Column User Guides: [LC Column User Guides | Agilent](#)

InfinityLab Supplies: [InfinityLab LC Supplies \(Agilent.com\)](#)

LC troubleshooting poster: [LC Troubleshooting Guide \(Agilent.com\)](#)

App Finder: [Application Finder | Agilent](#)

How to guides and other resources

- IEX for biomolecules: [3989-6969EN \(agilent.com\)](#)
- SEC for biomolecules: [5991-3651EN_LR.pdf \(Agilent.com\)](#)
- GPC/SEC MD Guide: [5991-7272EN.pdf \(Agilent.com\)](#)
- HILIC MD and Troubleshooting: [5991-9271EN](#)
- Glycans analysis: <https://www.agilent.com/en/promotions/glycans-resources>
- Chiral: [5991-8450EN_chiral_columns_appcompendium.pdf \(agilent.com\)](#)

Podcasts: [Peak Tales \(libsyn.com\)](#)

Webinars: [Webinars | Agilent](#)



Find Your LC Column

[LC Column Selector | Agilent](#)

Select an option to find your LC Column



AGENCY METHODS

USP

USP DESIGNATION

[LC and LC/MS Columns - USP Designations | Agilent](#)

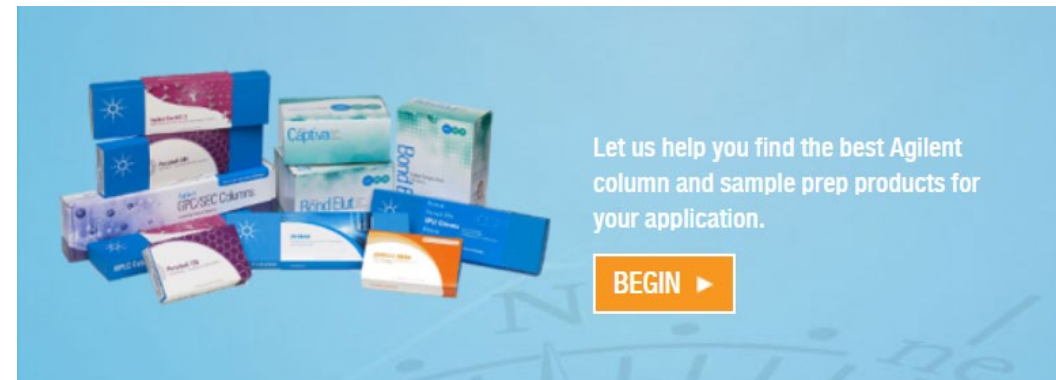
[Poroshell 120 LC Columns Selection Guide](#)

[Hi-Plex Column Brochure.indd \(agilent.com\)](#)

Zorbax Column Selection Poster: [Portfolio of totally porous HPLC columns \(agilent.com\)](#)

Poroshell 120 Column Selection Poster: [Choices For Solving Your Separation Challenges \(agilent.com\)](#)

[LC Column and Sample Prep Navigator \(Agilent.com\)](#)



Agilent Compendiums

[Search | Agilent](#)

Put InfinityLab Poroshell 120 Chiral innovation to work for your challenging separations

Application Compendium

SOLUTIONS THAT MEET YOUR DEMANDS FOR FORENSIC TOXICOLOGY

Excellent choices for forensic toxicology applications

The Measure of Confidence

MATERIALS TESTING AND RESEARCH SOLUTIONS FROM AGILENT

Polymers and Rubbers Application Compendium

Find More, Miss Less

Agilent-NISTmAb

Aggregate and Fragment Analysis

Agilent BioHPLC Columns Application Compendium



Solutions that meet your demands for

**food testing
agriculture**

Agilent-NISTmAb

Glycan Analysis

Agilent BioHPLC Columns Application Compendium

Accurately Identify Emerging Environmental Chemical Contaminants

Application Compendium

Agilent Biocolumns

Critical Quality Attributes

Application Compendium

Establish Your Cannabis Lab Fast

Ready-to-run eMethods and applications for cannabis testing: an application compendium



GC Column Selector | Agilent

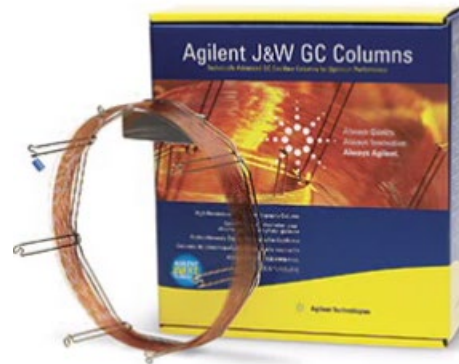
Select an option to find your GC column



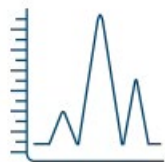
PART NUMBER SEARCH



PHASE CHEMISTRY



AGENCY METHODS



APPLICATION

USP

USP DESIGNATION

GC Tools and Resources

Optimize GC parameters: [GC calculators | Agilent](#)

- Pressure flow calculator
- Vapor volume calculator
- Solvent vent calculator

Method translation: [GC method translation software | Agilent](#)

GC troubleshooting poster: [Agilent GC troubleshooting guide poster](#)

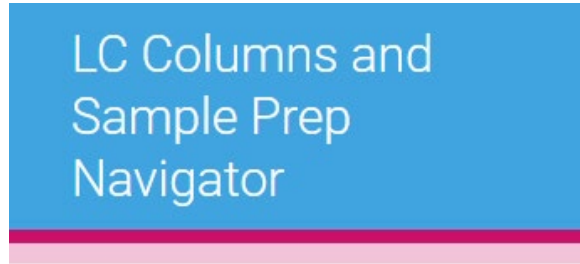
Gas Clean Filter Selection
Tool



[Agilent Gas Clean Filter Tool](#)

Sample Preparation

[LC Column and Sample Prep Navigator \(Agilent.com\)](#)



QuEChERS SELECTOR TOOL

<input checked="" type="radio"/> DISPERSIVE KIT DETAILS	What regulatory agency's method are you following?
REGULATORY AGENCY: SAMPLE & MATRIX: GENERAL TYPE: SPECIFIC TYPE: CERAMIC HOMOGENIZER: DISPERSIVE VOLUME:	
<input type="radio"/> EXTRACTION KIT DETAILS	
CERAMIC HOMOGENIZER:	
<input type="radio"/> RECOMMENDATION	<input type="text" value="AOAC 2007.10"/>
	<input type="text" value="EN 15662"/>
	<input type="text" value="Original Method 10 g"/>
	<input type="text" value="Original Method 15 g"/>

[QuEChERS Selector Tool | Agilent](#)

SPE method guides

- Bond Elut Plexa: [04034-0811-Bondelut2pp-6panel-Final-Lo.pdf \(Agilent.com\)](#)
- Bond Elut Lipid Extraction: [method-guide-96-well-plate-bond-elut-5994-1690en-agilent.pdf](#)

For assistance email: spp-support@agilent.com

Sample Preparation and Containment

[Captiva Syringe Filter Selector | Agilent](#)

[Via1 Selector | Agilent](#)

SYRINGE FILTER SELECTOR TOOL

● **SAMPLE MATRIX**

○ LABORATORY REQUIREMENTS

○ SAMPLE VOLUME RANGE

○ COLUMN PARTICLE SIZE

○ RECOMMENDATION

LABORATORY REQUIREMENTS:

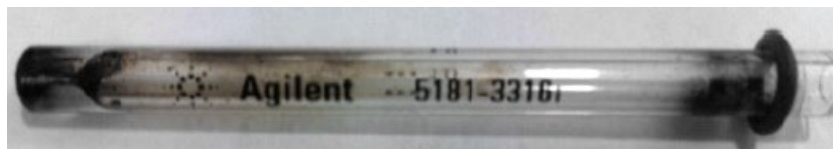
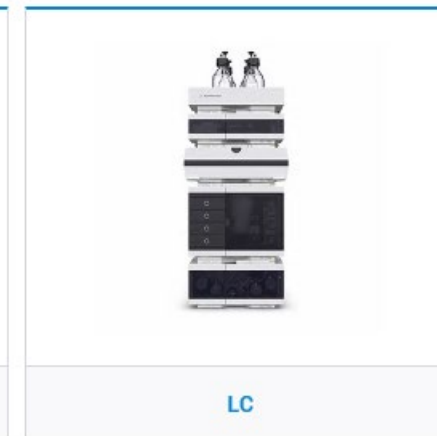
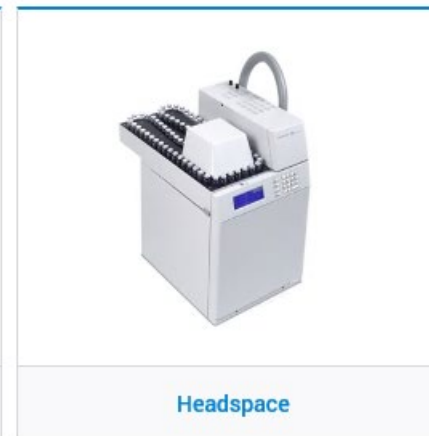
SAMPLE VOLUME RANGE:

COLUMN PARTICLE SIZE:

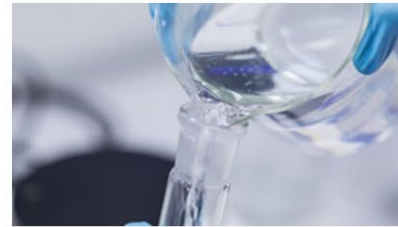
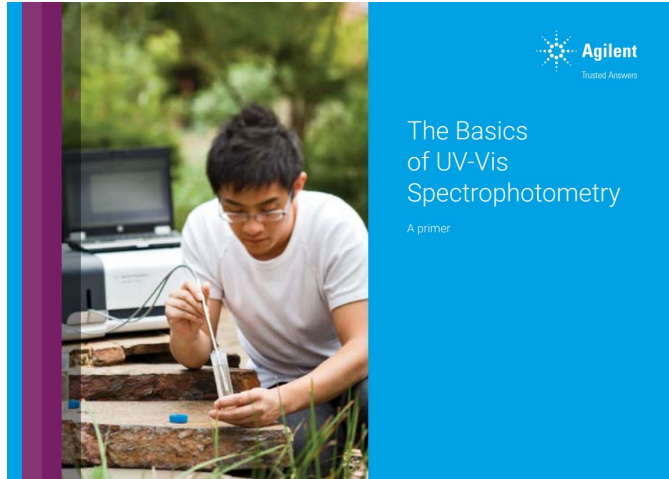
Please indicate which best describes your sample & matrix:

- Aqueous solutions
- Mixed organic/non-aggressive organic solutions
- Particulate laden aqueous solutions
- Particulate laden organic solutions
- Samples containing protein/peptide analytes of interest
- Undiluted/aggressive organic solvents

What separation technique are you using?



Molecular Spectroscopy



Speciality Chemicals



Energy & Chemical



Environmental

FTIR analysis and applications | Agilent

UV-Vis spectroscopy and UV-Vis-NIR, Cary spectrophotometers | Agilent



Advanced Optical Analysis with Cary Spectrophotometers for UV-Vis Spectroscopy & UV-Vis-NIR

With a proven record in optical design excellence and innovation, Agilent Cary spectrophotometers deliver unparalleled performance. Cary UV-Vis spectrophotometers are ideal for both routine and research measurements, with flexibility and reliability. Cary UV-Vis-NIR spectrophotometers offer photometric excellence in a range of applications for both liquid and solid samples. Our accurate, intuitive UV-Vis-NIR and UV-Vis instruments provide exceptional resolution and unmatched linearity for every measurement.

A comprehensive portfolio of accessories and supplies add flexibility and are easy to set up and use for routine UV-Vis spectroscopy of liquid or solid samples, precise temperature measurements, sophisticated transmission and reflectance measurements of solid

Learning Tools

- Basics of UV-Vis Spectrophotometry - Handbook & Lab Experiment Toolkits
- UV-Vis Spectrophotometer Selection Guide
- UV-Vis & UV-Vis-NIR Webinars
- Molecular Spectroscopy User Community



Atomic Spectroscopy Resources

Agilent ICP-MS Resource Hub
Expert Advice at
Your Fingertips

[ICP-MS resource \(Agilent.com\)](#)

4th Edition

Handbook of ICP-QQQ
Applications using the
Agilent 8800 and 8900

Primer

[Handbook of ICP-QQQ applications \(Agilent.com\)](#)

Agilent Atomic Absorption Spectrometry Resource Hub
Solve your AAS performance
challenges



[AAS resource \(Agilent.com\)](#)

Other resources

- [Nebulizer-product reference chart | Agilent](#)
- Compendium
 - Molecular spectroscopy: [5991-3818EN_LR.pdf \(Agilent.com\)](#)
 - Flame and graphite furnace: [Flame and furnace atomic absorption spectroscopy \(Agilent.com\)](#)

For assistance: spectro-supplies-support@agilent.com

Agilent Standards

Calibrants, tuning mixes, OQ/PV test standards

Agilent ULTRA Chemical Standards

- Find your standard at <https://www.agilent.com/en/product/chemical-standards>
 - Certificates of Analysis
 - Safety Data Sheets
- Custom standards online tool [ACQ | Agilent](#)
 - Upload recipe formulations; modify recipe before submitting

For assistance: chem-standards-support@agilent.com



Safety Data Sheet, Certificate of Conformance, Certificate of Analysis

Certificate of Conformance: [Search | Agilent](#)



C of A: [Search | Agilent](#)



Safety Data Sheet: [Search | Agilent](#)

Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET



Poroshell 120 SB-Aq with Acetonitrile and Water - less than 10 mL

Agilent Community



Gas Chromatography



GC/MS



Liquid Chromatography



LC/MS



Atomic Spectroscopy



Molecular Spectroscopy



Software



AssayMap



Consumables



Sample Preparation



Bioreagents



Dissolution



Vacuum



Cell Analysis



Automated Electrophoresis



Support Resources



Webinar Notifications



Join the Agilent Community

Agilent Resource Center | Agilent

Learn more using our resources below to achieve optimal results in your lab.

Our dedicated team is here to help you. If you would like to speak to an Agilent expert about your specific requirements [contact us](#).

Agilent
CrossLab

From Insight to Outcome



Sample prep &
Containment +



Chemical
Standards +



Analysis +



Service & Support +



Application
Workflows +

Additional Resources

Agilent product catalogs: <https://www.agilent.com/en/promotions/catalog>
InfinityLab Supplies catalog ([5991-8031EN](#))

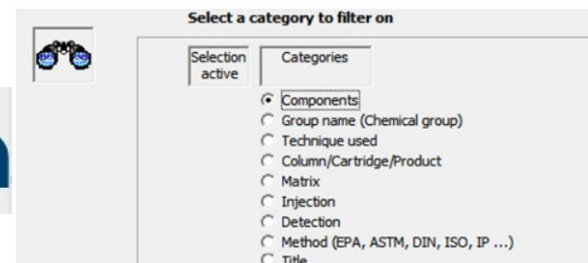
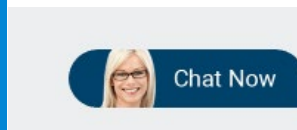
App store

- [GC Pressure/Flow Calculator Application for iPhone | Agilent](#)

YouTube – [Agilent Technologies](#)

[Syringe selector | Agilent](#)

Scanview: [Software-Supported Method Development - the Scanview program - Wiki-Consumables - Agilent Community](#)



Education and Training



Agilent University
Unlock your full potential with training that builds your knowledge and confidence.

[Overview](#) [Classroom](#) [Virtual Instructor-led Training](#) [Self-paced e-learning](#)

Events online and live: [Worldwide events | Agilent](#)

Looking to Increase Your Knowledge

Check out our live and on-demand webinars

GC, GC/MS, LC, LC/MS, and Sample preparation

[LC and LC/MS Column Webinars | Agilent](#)

[GC and GC/MS Webinars | Agilent](#)

[Agilent Chromatography and Mass Spec Educational Webinar Series | Agilent](#)

[OpenLab CDS Webinar Series | Agilent](#)

[Webinars | Agilent](#)

[Spectroscopy Webinar Series | Agilent](#)

[Molecular Spectroscopy Webinar Curriculum | Agilent](#)

[Solid State Analysis in Pharmaceutical Formulation Development | Agilent](#)

[Materials Testing and Research Webinars | Agilent](#)

[Emerging Omics Webinar Series | Agilent](#)

[Agilent Cell Analysis Webinar Series | Agilent](#)

Becoming a Better Chromatographer

HPLC and GC Educational Webinar Series



Support Services

Agilent
CrossLab
From Insight to Outcome

Transform Your Laboratory Operations

Agilent CrossLab services and support portfolio



[5991-4149EN_crosslab_service_portfolio.pdf \(Agilent.com\)](#)

[Online Service Request Logging Form | Agilent](#)

Service Agreement assistance: pdl-lsca-servicesales@agilent.com



Service Plans

Agilent CrossLab service plans provide labs with a variety of coverage...



Workflow Diagnostics

Agilent CrossLab Workflow Diagnostics lets you know when...



Service Center Repair

Agilent CrossLab Service Center Repair options include Instrument...



On Demand Services

Agilent CrossLab On Demand provides service when you need...

Easy Ways To Order

[Contact Us | Agilent](#)

Phone: 1-800-227-9770 (option 1, 1) in the U.S. and Canada – Mon to Fri, 8:00 a.m. – 8:00 p.m. ET

Fax: 1-302-633-8901 in the U.S.

Online store: [Order Center \(agilent.com\)](#) in the U.S. and Canada

Email: cag_sales-na@agilent.com

Outside the U.S. and Canada: [Contact Us | Agilent](#)

[Home](#) › [Order Center](#) › Orders

Orders

Sales Orders

Invoices

Recently Ordered Products

Q Sales Order or Purchase Order

mm/dd/yyyy

to

mm/dd/yyyy

SEARCH ORDERS

Clear

View last 30 days ▼

Contact Agilent Chemistries and Supplies

Chemistries and supplies technical support

1-800-227-9770 option 3, option 3:

Option 1 for GC or GC/MS columns and supplies

Option 2 for LC or LC/MS columns and supplies

Option 3 for sample preparation, filtration and QuEChERS

Option 4 for spectroscopy supplies

Option 5 for standards

Option 6 for Prozyme products



gc-column-support@Agilent.com

lc-column-support@agilent.com

spp-support@agilent.com

spectro-supplies-support@agilent.com

chem-standards-support@agilent.com

advancebio.glycan@agilent.com



Additional contact information

Instrument technical support, option 3, 2, 2

Inside consumables sales:

csd.online_sales@agilent.com

Inside instrument sales:

instrument_online_sales@agilent.com

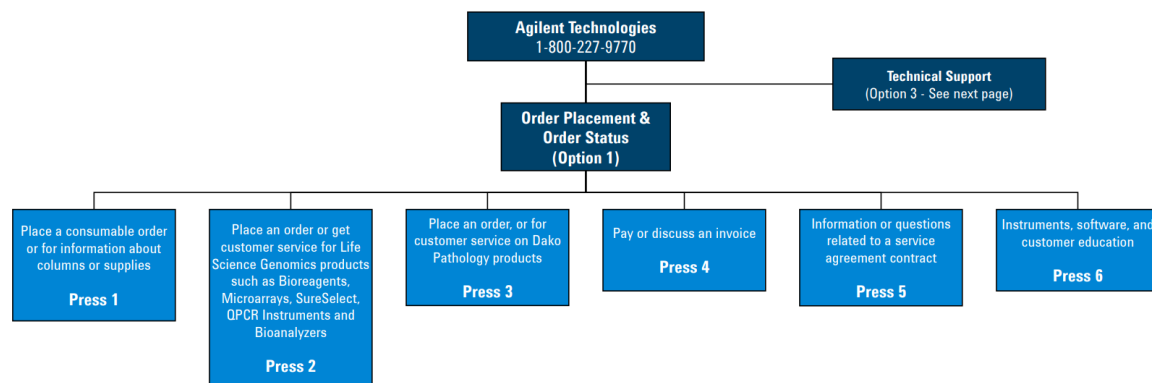
Support agreements: pdl-lsca-servicesales@agilent.com

Chat on Agilent.com

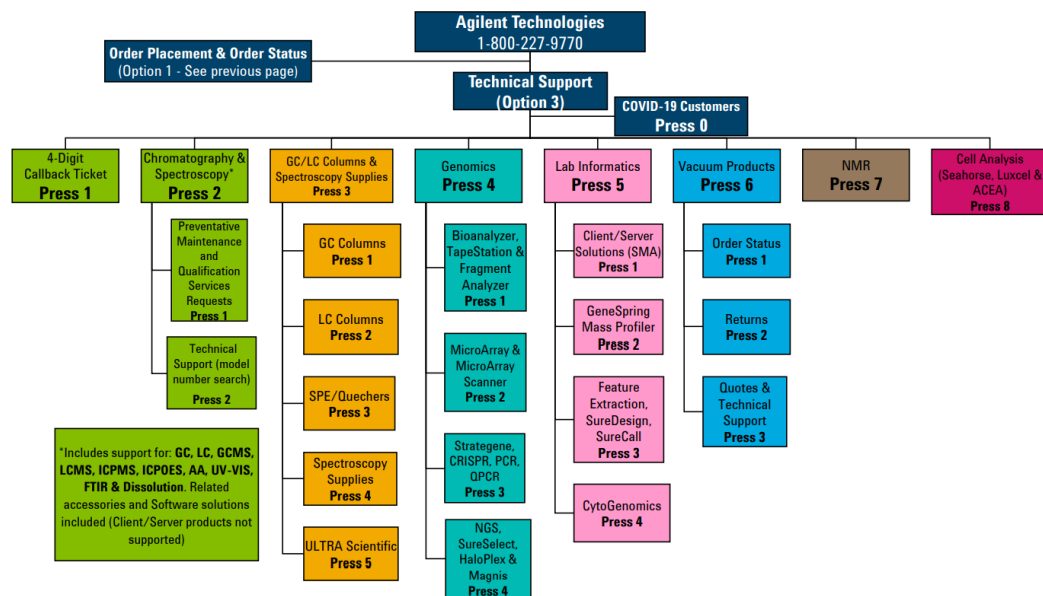
Tech support Worldwide: [Contact Us | Agilent](#)

Phone Tree Navigation Assistance

Online Web and phone directory for the U.S.



Technical Support – Phone Option 3		
Activity / Information	Access Online	Phone Menu Choices
COVID-19 Technical Support (If you are a customer performing research, development or testing on COVID-19)	NA	Press 3, 0
Chromatography & Spectroscopy (GC, LC, GC/MS, LC/MS, ICP-MS, ICP-OES, Atomic Absorption, UV-Vis, Dissolution and FTIR hardware, software, and related instruments)		
Callback with Ticket # (4 digits only, from previous call)	NA	Press 3, 1
For Preventative Maintenance and Qualification Services Requests	Online Service Request Logging	Press 3, 2, 1
If you are calling for technical assistance or to get a quote for onsite support	Online Service Request Logging	Press 3, 2, 2
GC and LC columns support, sample preparation including QuEChERS products, consumables or chromatography applications assistance		
GC columns, consumables technical support	gc-column-support@agilent.com	Press 3, 3, 1
LC columns, consumables technical support	lc-column-support@agilent.com	Press 3, 3, 2
Sample Preparation products, including QuEChERS, technical support	spp-support@agilent.com	Press 3, 3, 3
Atomic Spectroscopy supplies technical support	spectro-supplies-support@agilent.com	Press 3, 3, 4
Chemical Standards	chem-standards-support@agilent.com	Press 3, 3, 5
Prozyme Products	advancebio.glycan@agilent.com	Press 3, 3, 6
Genomics Technical Support		
Automated Electrophoresis Support (Bioanalyzer, TapeStation, Fragment Analyzer, ZAG DNA Analyzer, Femto Pulse, Oligo Pro II)	electrophoresis@agilent.com	Press 3, 4, 1
Microarray Workflow Support (SureScan)	genomics@agilent.com	Press 3, 4, 2
Bioreagents Support (Stratagene Mutagenesis and Cloning, SureVector, CRISPR/Cas9, SureGuide, PCR)	techservices@agilent.com	Press 3, 4, 3
qPCR Support (AriaMx)	qpcr.support@agilent.com	
NGS Support (SureSelect, HaloPlex, Magnis)	ngs.support@agilent.com	Press 3, 4, 4



*Includes support for: GC, LC, GCMS, LCMS, ICPMS, ICP-OES, AA, UV-VIS, FTIR & Dissolution. Related accessories and Software solutions included (Client/Server products not supported)

Appendix

Learn More About...

Vacuum products: [Agilent Dry Scroll Pumps catalog](#)

Dissolution: [Catalog_Dissolution_2019_01-84_august.indd \(Agilent.com\)](#)

Automation, Agilent Bravo System: [Consistent, Intuitive Sample Handling in a Small Footprint \(Agilent.com\)](#)



And...

Genomics: [Genomics Agilent | Agilent](#)

Cell Analysis

- [Pick Your Assay and Find Your Plate Reader | Agilent](#)
- [Cell Analysis publication database | Agilent](#)

Sure MASTR (NGS)

- [Multiplicom calculators | Agilent](#)



Genomics BioCalculators

BioCalculators

[Nucleic Acid Calculators](#) | [QPCR Calculators](#)

Nucleic acid calculators

[Nanograms to picomoles for single strand DNA and primers](#)

[PicoMoles to nanograms for single strand DNA and primers](#)

[Tm of PCR Primers Calculator \(short primers\)](#)

[Tm of PCR Primers Calculator \(long or short primers\)](#)

[PicoMole ends/micrograms of DNA](#)

[OD260 to Nucleic Acid Concentration](#)

[OD600 to Bacterial Cell Number](#)

QPCR calculators

[QPCR Slope to Efficiency](#)

Single Stranded DNA Weight to Mole Calculator - picomoles

Calculator to convert nanograms to picomoles or picomoles to nanograms for single stranded DNA and primers

ng of ssDNA

of bases

Calculate

picomoles of ssDNA =

The weight of single stranded DNA can be calculated as
Molecular Weight = 330 x # of bases.

The weight of a molecule in Daltons equals the weight of a mole in grams.
Picomoles (pmol) and Nanograms (ng) are convenient units for DNA and convert easily to larger or smaller units.

$\text{pmol ssDNA} = [\text{ng ssDNA} / (330 \times \# \text{ of bases})] (1000)$

$\text{ng of ssDNA} = [\text{pmol ssDNA} (330 \times \# \text{ of bases})] / 1000$

Agilent Compendium Links

[Forensics_and_Toxicology.pdf \(agilent.com\)](#)

[Food_Compndium.pdf \(agilent.com\)](#)

[Agilent-NISTmAb_Application-Compendium-Fragment-Analysis](#)

[Agilent-NISTmAb_Application-Compendium-Glycan-Analysis](#)

[Agilent-NISTmAb_Application-Compendium-Peptide-Mapping](#)

[Agilent-Biocolumns-Critical Quality-Attributes-Compendium-5991-9072EN.pdf](#)

[Materials Testing and Research Solutions From Agilent: Polymers and Rubbers Application](#)

[Compendium5991-6489EN-Enviro Non-Target Screening Comp.pdf \(agilent.com\)](#)

[5991-8450EN_chiral_columns_appcompendium.pdf \(agilent.com\)](#)

Atomic Spectroscopy Resources

- ICP-MS resource hub: <https://explore.agilent.com/icp-ms-resource>
- ICP-OES instrument, accessories, and supplies resource page: <https://www.agilent.com/en/product/atomic-spectroscopy/inductively-coupled-plasma-optical-emission-spectroscopy-icp-oes>
- AA instrument, accessories, and supplies: <https://www.agilent.com/en/product/atomic-spectroscopy/atomic-absorption>
- MP-AES instrument, accessories, and supplies: [MP-AES Systems, MP-AES Accessories, Agilent MP-AES Instruments | Agilent](#)

- UV-VIS and UV-VIS-NIR spectroscopy instruments, accessories, and supplies: <https://www.agilent.com/en/product/molecular-spectroscopy/uv-vis-uv-vis-nir-spectroscopy>
- FTIR instruments, accessories, and supplies: <https://www.agilent.com/en/product/molecular-spectroscopy/ftir-spectroscopy>
- Fluorescence spectroscopy instruments, accessories, and supplies: <https://www.agilent.com/en/product/molecular-spectroscopy/fluorescence-spectroscopy>
- Raman spectroscopy: <https://www.agilent.com/en/product/molecular-spectroscopy/raman-spectroscopy>
- LDIR chemical imaging spectroscopy: <https://www.agilent.com/en/product/molecular-spectroscopy/ldir-chemical-imaging-spectroscopy>