

Absolute Standards, Inc.

Pharmaceuticals & Natural Products

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WORLD CLASS MANUFACTURING & INTERNATIONALLY RECOGNIZED QUALITY

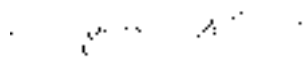
Welcome and thank you for selecting our catalog of Analytical Reference Materials (ARM) and Proficiency Testing Samples.

In keeping with our commitment to provide the highest quality Analytical Reference Materials (ARM)TM, Absolute Standards, Inc. has successfully maintained its ISO 9001:2000 registration and NIST-NVLAP accreditation for the USEPA performance testing program. These accreditations were obtained through extensive third party audits conducted by DLS Quality Technologies Associates; an ANSI-RAB accredited registrar and by NIST. The audits contained a rigorous scrutiny of our Quality Management System as well as our strict adherence to ISO Guide 17025, "General Requirements for the Competence of Calibration and Testing Laboratories", and NIST Handbook 150-19, "Chemical Calibration Providers of Proficiency Testing". These efforts are your assurance of the reliability of our products.

Focusing on the needs of the analytical testing laboratories, we strive to provide the highest quality and broadest range of analytical standards to an industry that relies on accuracy and precision. In keeping with this philosophy, we have **added over 160 pages** of new traceable reference materials to our current catalog. Included in the additions are products designed for the forensic, pharmaceutical, and geological industries. We have expanded our ASTM/Petrochemical lines, as well as offering a complete list of different EPA based protocols. Pioneering Web-Based data reporting, Absolute offers one of the most comprehensive Performance Testing programs in the industry. Consisting of EPA, NELAC, State specific, and custom designs, Absolute Standards has the technical expertise, customer service and commitment to quality it takes to ensure your laboratory has what it needs to stay calibrated and compliant with an ever changing environment.



Stephen J. Arpie, *M.S. Technical Director*



John P. Criscio, *President/CEO*

ORDERING & TECHNICAL INFORMATION

To Place an Order...

please have the following information available:

1. Account #
2. Purchase Order #
3. Part # and Quantity

We are available for orders & technical service from 9am-6pm (EST) by Phone, and 24 hrs. a day by Fax, Mail, & Internet.

...Phone...

800-368-1131

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We accept major credit cards: **MasterCard / VISA / AMEX.**

Orders that are placed before 5pm (EST) are shipped the same day by **FedX & UPS.**

Prices are F.O.B. Hamden CT. Terms are Net 30 Days. Terms and conditions of all sales contracts will be governed by the laws of The State of Connecticut. Prices are subject to change without notice.

Warranty by Absolute Standards includes that our products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 30 days of receipt. No returns can be made without a Return Authorization Number and instructions of forwarding.

Liability by Absolute Standards is limited solely to the replacement of the product or refund of the purchase price. These products are intended for research use only. Owing to their hazardous nature, they should be handled only by qualified, trained personnel familiar with their use.

CERTIFICATE OF ANALYSIS

Quality products and the data to prove it!

ABSOLUTE STANDARDS, INC.



ISO 9001 DLS ANSI-RAB ACCREDITED

Certificate of Analysis



Conformance: This document, in conjunction with the "Certified Weight Report", complete the conformance requirements in the current versions of: ISO Guides (9001,24,31,34,17025) & NIST-NVLAP Handbook 150-19.

Health & Safety: See the attached MSDS & Certified Weight Report before use.

Intended Use: This Analytical Reference Material (ARM™) is intended primarily for use in the characterization of unknowns & the establishment of response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. The product is for laboratory use only.

Certified Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value, & are valid between 18°C & 30°C. The measured uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to **NIST Traceable** standard weights & certified by the manufacturer. Volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed **ACS Reagent Grade & ACS Standards Grade** specifications.

Homogeneity: No heterogeneity was observed in the preparation, packaging & storage of this standard.

Purity & Identity: Purity determinations are performed using at least one analytical technique. Identity assays are typically performed using two dissimilar methods.

Organic solutions & neat materials are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a **NIST Traceable** library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, NPD, LC-PDA measurements for purity.

Inorganic solutions & neat materials are typically formulated from neat materials whose purity & identity have been characterized by ICPMS with comparison to a **NIST Standard Reference Material** when available. Additional characterization techniques may include but are not limited to: titrimetry, and densimetry, AA or ICP.

Final solutions are subjected to instrumental analysis to support the gravimetric values when appropriate. The data for the quality assurance testing is published with the Certified Weight Report. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICPMS, titrimetry, and densimetry.

Storage: Sealed ampules and other containers should be stored in the dark at temperatures above the freezing point of the solution and not more than 30°C. Certification by Absolute Standards, Inc. is typically valid for 5 years from the date of manufacture (Lot Number). Certified values are not applicable to opened ampules or to materials stored in re-sealable containers.

Usage: Ampules & bottles should be brought to room temperature (18 to 30°C) before opening. Sonication may be required for high concentration solutions. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short term storage.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 30 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S. Technical Director

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Document Identification: Certificate of Analysis Rev 4, Date Issued: 01/01/2003

View the next two pages for a complete representation of a typical data package.

Call Toll-Free 800-368-1131
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QUALITY SYSTEM

ISO 9001:2000 / 17025

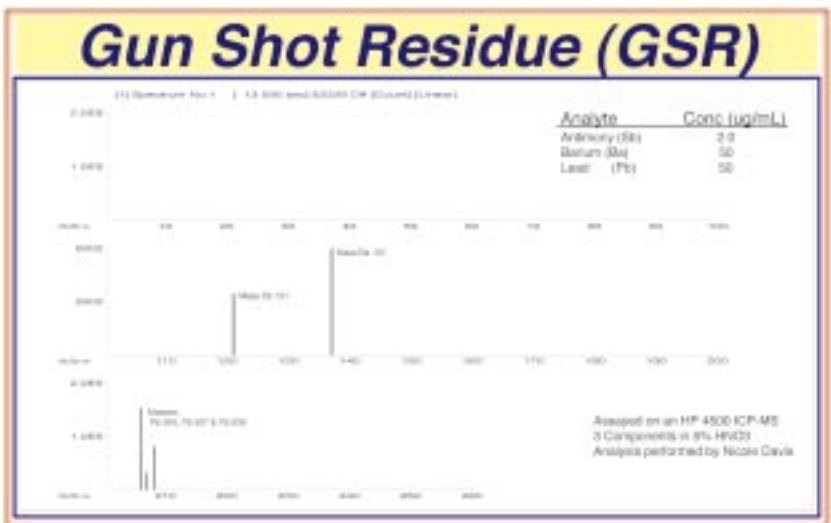
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Forensic Science

FUELS AND ACCELERANTS

Motor Fuels and Oils

Part #	Compound	Solvent	Conc. ug/mL
71359	Unleaded Gasoline 93 Octane	in methanol	1000
71358	Unleaded Gasoline 87 Octane	in methanol	1000
71362	#1 Fuel Oil Diesel	in methylene chloride	1000
71364	#2 Fuel Oil Diesel	in methylene chloride	1000
71901	SAE 5-30W Motor Oil	in methylene chloride	1000
71902	SAE 10-30W Motor Oil	in methylene chloride	1000
71748	SAE 10-40W Motor Oil	in methylene chloride	1000
71903	SAE 20-50W Motor Oil	in methylene chloride	1000
71904	Motor Oil Composite Standard	in methylene chloride	1000
71537	SAE 30 W motor oil	in methylene chloride	1000
71538	SAE 40 W motor oil	in methylene chloride	1000
71539	SAE 50 W motor oil	in methylene chloride	1000

Heating Fuels and Oils

71363	#2 Fuel Oil (Home Heating)	in methylene chloride	1000
71367	Kerosene	in methylene chloride	1000

Aviation Fuels and Oils

71360	Jet A Fuel (Aviation)	in methylene chloride	1000
71560	JP-4 Fuel	in methylene chloride	1000
71561	JP-5 Fuel	in methylene chloride	1000
71562	JP-8 Fuel	in methylene chloride	1000
71563	JPTS	in methylene chloride	1000
71593	Hydraulic oil	in methylene chloride	1000

FUELS AND ACCELERANTS (CONT.)

Forensic Science

Household & Industrial Solvents

All solutions are \$22/mL

71519	Lacquer thinner	in methylene chloride	1000
71518	Mineral spirits	in methylene chloride	1000
71521	Naphtha	in methylene chloride	1000
71522	Turpentine	in methylene chloride	1000
71523	Stoddard	in methylene chloride	1000
71520	Paint Thinner	in methylene chloride	1000
70421	Urethane	in methylene chloride	1000
70962	n-Hexane	in Methanol	1000
70307	o-Xylene	in Methanol	1000
70306	m-Xylene	in Methanol	1000
70308	p-Xylene	in Methanol	1000
70281	Toluene	in Methanol	1000
70025	Benzene	in Methanol	1000
71187	Iso-octane (2,2,4-Trimethylpentane)	in Methanol	1000

ASTM E1618

Fire Debris Analysis

200ug/mL in Carbon disulfide

- (1) n-Decane
- (2) n-Eicosane
- (3) o-Ethyltoluene
- (4) n-Hexane
- (5) n-Octane
- (6) Toluene
- (7) p-Xylene
- (8) n-Dodecane
- (9) m-Ethyltoluene
- (10) n-Hexadecane
- (11) n-Octadecane
- (12) n-Tetradecane
- (13) 1,2,4-Trimethylbenzene

Part # 51095 \$30/mL

** Can not Ship via Air*

BTEX & MTBE

200ug/mL in Methanol

- (1) Benzene
- (2) Toluene
- (3) Ethyl benzene
- (4) o-Xylene
- (5) m-Xylene
- (6) p-Xylene
- (7) MTBE (methyl-t-butyl ether)

Part # 90728 \$20/mL

Forensic Science

ALCOHOL MIXES

Alcohol Standard 1

10 mg/mL in Water.

- (1) Methanol
- (2) Ethyl Alcohol (Ethanol)
- (3) n-Propanol
- (4) Isopropanol (2-Propanol)

Part # 92271 \$30/mL

Alcohol Standard 2

20 mg/mL in Water.

- (1) n-Butanol
- (2) Ethyl Alcohol (Ethanol)
- (3) Isobutanol
- (4) Isopropanol (2-Propanol)
- (5) Methanol
- (6) n-Propanol

Part # 91701 \$30/mL

Alcohol Standard 3

1 mg/mL in Water.

- (1) Amyl alcohol
- (2) Ethyl Alcohol (Ethanol)
- (3) Isopropanol (2-Propanol)
- (4) Methanol

Part # 92482 \$30/mL

Alcohol Standard 4

10 mg/mL in Water.

- (1) Methanol
- (2) Ethyl Alcohol (Ethanol)
- (3) Acetone
- (4) Isopropanol (2-Propanol)
- (5) 2-Butanone (MEK)
- (6) 4-Methyl-2-pentanone (MIBK)
- (7) Ethylene glycol

Part # 92565 \$30/mL

Alcohol Standard 5

10 mg/mL in Water.

- (1) Acetaldehyde
- (2) Methanol
- (3) Acetone
- (4) Ethanol
- (5) Isopropanol (2-Propanol)
- (6) n-propanol (1-Propanol)

Part # 82446 \$30/mL

NITROAROMATICS AND NITRAMINES

Forensic Science

Part#	Compound	Concentration	Price/1 mL
79069	2-Amino-4,6-dinitrotoluene	1000 ug/mL in Acetonitrile	20.00
79070	4-Amino-2,6-dinitrotoluene	1000 ug/mL in Acetonitrile	20.00
79240	1,2,4-Butanetriol-1,4-dinitrate	1000 ug/mL in Acetonitrile	20.00
79241	1,2,4-Butanetriol trinitrate	1000 ug/mL in Acetonitrile	20.00
70911	1,2-Dinitrobenzene	1000 ug/mL in Methanol	20.00
79071	1,3-Dinitrobenzene	1000 ug/mL in Acetonitrile	20.00
79242	2,2'-Dinitrodiphenylamine	1000 ug/mL in Acetonitrile	50.00
79243	2,4'-Dinitrodiphenylamine	1000 ug/mL in Acetonitrile	50.00
79244	4,4'-Dinitrodiphenylamine	1000 ug/mL in Acetonitrile	50.00
82447	Dinitroethylene glycol	100 ug/mL in Acetonitrile	20.00
79245	1,2-Dinitroglycerin	1000 ug/mL in Acetonitrile	20.00
79246	1,3-Dinitroglycerin	1000 ug/mL in Acetonitrile	20.00
79072	2,4-Dinitrotoluene	1000 ug/mL in Acetonitrile	20.00
79073	2,6-Dinitrotoluene	1000 ug/mL in Acetonitrile	20.00
79247	3,4-Dinitrotoluene	1000 ug/mL in Acetonitrile	20.00
79074	HMX	1000 ug/mL in Acetonitrile	20.00
79248	1-Mononitroglycerin	1000 ug/mL in Acetonitrile	20.00
79249	2-Mononitroglycerin	1000 ug/mL in Acetonitrile	20.00
79075	Nitrobenzene	1000 ug/mL in Acetonitrile	20.00
79076	2-Nitrotoluene	1000 ug/mL in Acetonitrile	20.00
79077	3-Nitrotoluene	1000 ug/mL in Acetonitrile	20.00
79078	4-Nitrotoluene	1000 ug/mL in Acetonitrile	20.00
79250	Pentaerythritol tetranitrate (PETN)	1000 ug/mL in Acetonitrile	20.00
79251	1,2-Propanediol dinitrate	1000 ug/mL in Acetonitrile	20.00
79079	RDX	1000 ug/mL in Acetonitrile	20.00
79080	Tetryl	1000 ug/mL in Acetonitrile	20.00
79081	1,3,5-Trinitrobenzene	1000 ug/mL in Acetonitrile	20.00
79252	Trinitroglycerin	1000 ug/mL in Acetonitrile	20.00
79082	2,4,6-Trinitrotoluene (TNT)	1000 ug/mL in Acetonitrile	20.00

Forensic Science

NITROAROMATICS AND NITRAMINES

CALIBRATION STANDARD - MIX #1

100 ug/mL In Acetonitrile. 1 mL

- (1) 2-Amino-4,6-dinitrotoluene
- (2) 1,3-Dinitrobenzene
- (3) 2,4-Dinitrotoluene
- (4) HMX
- (5) Nitrobenzene
- (6) RDX
- (7) 1,3,5-Trinitrobenzene
- (8) 2,4,6-Trinitrotoluene(TNT)

Part # 83525 \$45

CALIBRATION STANDARD - MIX #2

100 ug/mL In Acetonitrile. 1 mL

- (1) 4-Amino-2,6-dinitrotoluene
- (2) 2,6-Dinitrotoluene
- (3) 2-Nitrotoluene
- (4) 3-Nitrotoluene
- (5) 4-Nitrotoluene
- (6) Tetryl

Part # 83526 \$45

1,2-Dinitrobenzene Surrogate Standard

1000 ug/mL In Methanol.

- (1) 1,2-Dinitrobenzene

Part # 70911 \$20/mL

3,4-Dinitrotoluene Internal Standard

1000 ug/mL In Methanol.

- (1) 3,4-Dinitrotoluene

Part # 71773 \$20/mL

GUN SHOT RESIDUE ANALYSIS / PAINTCHIP ANALYSIS

Forensic Science

Gun Shot Residue Analysis

Matrix 5% HNO₃.

Element	Conc.(ug/mL)
---------	--------------

Ba	50
----	----

Sb	2.0
----	-----

Pb	50
----	----

Part # 52326 \$125/100 mL

Part # 53326 \$325/500 mL

Single Element Kit

(3 x 100ml bottles @ 1000ug/mL Each)

Element		Matrix
Antimony	Sb	Sb ₂ O ₃ /HNO ₃ tr.Tartaric acid
Barium	Ba	Ba(NO ₃) ₂ /HNO ₃
Lead	Pb	Pb(NO ₃) ₂ /HNO ₃

Part # 52257 \$50

Paint Chip Analysis

Matrix 5% HNO₃.

Element	Conc.(ug/mL)
---------	--------------

Ti	100
----	-----

Pb	5
----	---

Part # 52138 \$20/100 mL

Part # 53138 \$40/500 mL

Single Element Kit

(2 x 100ml bottles @ 1000ug/mL Each)

Element		Matrix
Titanium	Ti	(NH ₄) ₂ TiF ₆ /HNO ₃ /tr.HF
Lead	Pb	Pb(NO ₃) ₂ /HNO ₃

Part # 52258 \$35

**Call Toll-Free 800-368-1131
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USP METHOD

467

DETERMINATION OF RESIDUAL ORGANIC SOLVENTS IN PHARMACEUTICAL PREPARATIONS

International USP 467*Conc. (ug/mL) in Methanol*

(1) Acetonitrile	500
(2) Benzene	1000
(3) Chloroform	500
(4) 1,2-Dichloroethane	1000
(5) 1,4-Dioxane	1000
(6) Methylene chloride	5000
(7) Pyridine	1000
(8) Trichloroethene	1000

Part # 82455 \$40/mL**USP Organic Volatile
Impurities Mix***Conc. (ug/mL) in Methanol*

(1) Benzene	1000
(2) Chloroform	500
(3) 1,4-Dioxane	1000
(4) Methylene chloride	5000
(5) Trichloroethene	1000

Part # 82456 \$35/mL**USP Organic Volatile
Impurities Mix (High Conc.)***Conc. (ug/mL) in DMSO*

(1) Benzene	1000
(2) Chloroform	500
(3) 1,4-Dioxane	1000
(4) Methylene chloride	5000
(5) Trichloroethene	1000

Part # 82457 \$40/mL**USP Organic Volatile
Impurities Mix (Low Conc.)***Conc. (ug/mL) in DMSO*

(1) Benzene	100
(2) Chloroform	50
(3) 1,4-Dioxane	100
(4) Methylene chloride	500
(5) Trichloroethene	100

Part # 82458 \$40/mL

HPLC RESOLUTION TEST MIXES

METHOD

Misc.**NORMAL PHASE TEST MIX #1***Varied (ug/mL) in Hexane. 1mL*

(1)	Benzene	1000
(2)	Benzaldehyde	40
(3)	Benzyl alcohol	3000
(4)	4-Methoxybenzyl alcohol	2000

Part # 40100 \$35**NORMAL PHASE TEST MIX #2***Varied (ug/mL) in Isooctane/Ethanol [85:15]. 1mL*

(1)	2-Nitroaniline	500
(2)	3-Nitroaniline	1000
(3)	4-Nitroaniline	600
(4)	Nitrobenzene	193
(5)	Toluene	1754

Part # 40101 \$35**REVERSED PHASE TEST MIX #1***Varied (ug/mL) in Methanol/Water [75:25]. 1mL*

(1)	Uracil	20
(2)	Benzene	3000
(3)	Naphthalene	500
(4)	Biphenyl	60

Part # 40102 \$35**REVERSED PHASE TEST MIX #2***Varied (ug/mL) in Acetonitrile/Water [60:40]. 1mL*

(1)	Methylbenzoate	3210
(2)	4-Nitroaniline	240
(3)	Phenetole	5130
(4)	Theophylline	100
(5)	o-Xylene	7019

Part # 40103 \$40

SN**ORGANO-TIN
STANDARDS****Butyltin Chloride Standard***2000 ug/mL in Methylene chloride. 1mL*

- (1) Butyltin trichloride
- (2) Dibutyltin dichloride
- (3) Tetrabutyltin
- (4) Tributyltin chloride

Part # 82485 \$40**Phenyltin Chloride Standard***2000 ug/mL in Methylene chloride. 1mL*

- (1) Diphenyltin dichloride
- (2) Phenyltin trichloride
- (3) Tetraphenyltin
- (4) Triphenyltin chloride

Part # 82486 \$40**Tributyltin Chloride
Calibration Mix***2000 ug/mL in Methylene chloride. 1mL*

- (1) Tributyltin chloride

Part # 82487 \$30**Tripentyltin Chloride
Surrogate***2000 ug/mL in Methylene chloride. 1mL*

- (1) Tripentyltin chloride

Part # 82488 \$30**Tetrapentyltin
Internal Standard***2000 ug/mL in Methylene chloride. 1mL*

- (1) Tetrapentyltin

Part # 82489 \$30

**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**

**SINGLE
COMPONENT
SOLUTIONS**

All solutions are 1000 ug/ml \$22/mL

Part#	Compound	Solvent	Description
72088	Acesulfame K	Water	Sweetener
72089	Acetaminophen	Methanol	Pain reliever
72090	Acetazolamide	Methanol	Diuretic, Glaucoma treatment
72091	Acetylsalicylic Acid	Methanol	Aspirin
72092	Adenine	Water	Nucleic acid
72093	L-Alanine	Water	Amino acid
72094	Amiloride	Methanol	Antihypertensive-Diuretic
72095	Amitriptyline	Methanol	Antidepressant
72096	Amoxicillin	Methanol	Antibiotic
72097	Ampicillin	Methanol	Antibiotic
72098	D-(+)-Arabinitol	Water	Sugar
72099	L-Arabinose	Water	Sugar
72100	L-Arginine	Water	Amino acid
72101	Ascorbic acid	Water	Vitamin C
72102	L-Asparagine	Water	Amino acid
72103	Aspartame	Water	Artificial sweetener
72104	L-Aspartic acid	Water	Amino acid
72105	Atenolol	Methanol	Antihypertensive-Diuretic
72106	Atropine	Water	Antispasmodic
72108	Azathioprine	Water	Antirheumatic
72109	Benoxinate	Water	Topical anesthetic
70034	Benzoic acid	Methanol	Antimicrobial/Preservative
72110	Betamethasone	Water	Glucocorticoid
72111	D-Biotin	Water	Vitamin H
72114	<i>tert</i> -butyl hydroquinone (TBHQ)	Methanol	Antioxidant
72115	Butylated hydroxyanisole (BHA)	Methanol	Antioxidant
71028	Butylated hydroxytoluene (BHT)	Methanol	Antioxidant
72116	Butyl paraben	Methanol	Antimicrobial/Preservative
71151	Caffeine	Methanol	Stimulant
72117	Calcium cyclamate	Water	Sweetener
72118	Calcium propionate	Methanol	Antimicrobial/Preservative
72119	Campesterol	Methanol	Sterol
71400	(+/-)-Camphor	Methanol	Preservative
72120	Captopril	Methanol	Antihypertensive
72121	Carbamazepine	Methanol	Analgesic

**SINGLE
COMPONENT
SOLUTIONS**
**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**

All solutions are 1000 ug/ml \$22/mL

Part#	Compound	Solvent	Description
72122	Carbinoxamine	Methanol	Antihistamines
72123	Cefaclor	Methanol	Cephalosporin
72124	Cefadroxil	Methanol	Cephalosporin
72125	Cephalexin	Methanol	Cephalosporin
72126	Chloramphenicol	Methanol	Antibiotic
71592	Chlorophyll a & b	Acetone	Natural Extract
72128	Chlorpheniramine	Methanol	Antihistamine
72129	5-alpha-Cholestane	Methanol	Sterol
71719	Cholesterol	THF	Steroid
72130	Cimetidine	Methanol	Anti-Ulcer Compound
72223	Ciprofloxacin	Methanol	Antibiotic
71713	Citric acid	Water	Organic acid
72131	Cloxacillin	Methanol	Antibiotic
72132	Coprosterol	Methanol	Sterol
72133	Cortisone	Methanol	Anti-inflammatory
72134	Cyanocobalamin	Methanol	Vitamin B12
72135	L-Cysteine	Water	Amino acid
72138	Desipramine	Methanol	Tricyclic Antidepressant
72141	Dexamethasone	Methanol	Anti-inflammatory
72142	Dextromethorphan	Methanol	Analgic
72143	Dibucaine	Methanol	Local Anesthetic
72144	Diclofenac	Methanol	Anti-Inflammatory
70361	Diethyl stilbesterol	Methanol	Hormone
72145	Diflunisal	Methanol	Anti-Inflammatory
72146	Digoxin	Methanol	Cardiac Drug
72147	3,4-Dihydroxybenzylamine	Methanol	Catecholamine
72148	Diltiazem	Methanol	Antihypertensive
72149	Diluarthiopropionate	Methanol	Antioxidant
72150	Diphenhydramine	Methanol	Anti-Seizure
72151	Dipyridamole	Methanol	Cardiac Drug
72152	Dopamine	Methanol	Antihypotensive
72153	Doxepin	Methanol	Antidepressant
72154	Doxylamine	Methanol	Antihistamines
72155	Enalapril	Methanol	Antihypertensive ACE Inhibitor
72156	Ephedrin (Pseudoephedrin)	Methanol	Decongestant

**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**

**SINGLE
COMPONENT
SOLUTIONS**

All solutions are 1000 ug/ml \$22/mL

Part#	Compound	Solvent	Description
72157	Epinephrine	Methanol	Cardiac stimulant
72158	Ergocalciferol	Water	Vitamin D12
71746	Ethyl paraben	Acetonitrile	Antimicrobial/Preservative
72160	Famotidine	Methanol	Anti-Ulcer Compound
72162	Flunarizine	Methanol	Cardiac Drug
72163	Fluphenazine	Methanol	Antipsychotic
72164	beta-D-(-)-Fructose	Water	Complex Sugar
72165	Folic Acid	Water	Vitamin
72166	L-Fucitol	Water	Sugar
72167	Fumaric Acid	Methanol	Organic acid
72168	Furosemide	Methanol	Anti-Inflammatory
72169	Galactitol	Water	Sugar
72170	D-Galactose	Water	Complex Sugar
72171	Gentian (Crystal) violet	Methanol	Topical anesthetic
71805	D-Glucose	Water	Sugar
72172	D-Glucitol	Water	Sugar
72173	L-Glutamic acid	Water	Amino acid
72174	L-Glutamine	Water	Amino acid
72175	Glybenclamide	Methanol	Antidiabetic
72176	L-Glycine	Water	Amino acid
72177	Glycolic acid	Methanol	Organic acid
72179	Griseofulvin	Methanol	Antifungal antibiotic
72180	Guanine	Water	Nucleic acid
72181	L-Histidine	Water	Amino acid
72182	Hydrochlorothiazide	Methanol	Diuretic
72183	Hydrocortisone	Methanol	Anti-Inflammatory
72184	4-Hydroxymethyl-2,6-di- <i>tert</i> -butyropheno	Methanol	Antioxidant
72185	Ibuprofen	Methanol	Anti-Inflammatory
72186	Imipramine	Methanol	Tricyclic antidepressant
72187	Indomethacin	Methanol	Anti-inflammatory/ Analgesic
72188	Inositol	Water	Sugar alcohol
72189	L-Isoleucine	Water	Amino acid
72190	Ketoprofen	Methanol	Anti-inflammatory/ Analgesic
71799	L-(+)-Lactic acid	Methanol	Organic acid
72192	Lanosterol	Methanol	Sterol

SINGLE COMPONENT SOLUTIONS

PHARMACEUTICALS / FOODS / FLAVORS AND NATURAL PRODUCTS

All solutions are 1000 ug/ml \$22/mL

Part#	Compound	Solvent	Description
72193	L-Leucine	Water	Amino acid
72195	Lidoflazine	Methanol	Cardiac Drug
72196	Lisinopril	Methanol	Antihypertensive ACE Inhibitor
72197	Lomefloxacin	Methanol	Antibiotic
72198	L-Lysine	Water	Amino acid
72199	Malic acid	Methanol	Organic acid
72200	Malonic acid	Methanol	Organic acid
71802	D-(+)-Maltose monohydrate	Water	Sugar
72201	Mannitol	Water	Sugar
72202	D-Mannose	Water	Sugar alcohol
72203	Mefanamic acid	Methanol	Anti-Inflammatory
72204	Menadione	Methanol	Vitamin K
70915	Mestranol	Methylene chloride	Hormone
72205	Metanilic acid	Methanol	Precursor for sulfa drugs
72206	Metaproterenol	Methanol	Bronchodilator
72207	Metformin	Methanol	Antidiabetic
72208	L-Methionine	Water	Amino acid
72209	Methotrexate	Methanol	Antirheumatic
71348	Methyl paraben	Methanol	Antimicrobial/Preservative
72210	Milk of Magnesia [Mg(OH) ₂]	Methanol	Digestive aid
72211	Nalidixic acid	Methanol	Antibacterial
72213	Naproxen	Methanol	Anti-Inflammatory
72214	Neohesperidin dihydrochalcone	Water	Sweetener
72215	Niacinamide	Water	Vitamin B3
70439	1-Nicotine	Methanol	Stimulant
72216	Nicotinic acid	Water	Vitamin
72217	Nifedipine	Methanol	Antihypertensive
72219	Noradrenaline	Methanol	Antihypotensive
72220	Nordoxepin	Methanol	Anxiolytic
72221	Norephedrin	Methanol	Decongestant
72222	Nortriptyline	Methanol	Tricyclic Antidepressant
72224	Oxacillin	Methanol	Antibacterial
72225	Oxyphenbutazone	Methanol	Anti-Inflammatory
72226	Oxprenolol	Methanol	Antihypertensive
72227	Pancreatin	Methanol	Digestive aid

**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**

**SINGLE
COMPONENT
SOLUTIONS**

All solutions are 1000 ug/ml \$22/mL

Part#	Compound	Solvent	Description
72228	D-Pantothenic acid	Water	Vitamin B5
71349	Propyl paraben	Methanol	Antimicrobial/Preservative
72229	Paracetamol	Methanol	Sinus Medication
72230	Penicillin G	Methanol	Antibiotic
72231	Penicillin V	Methanol	Antibiotic
72232	Perphenazine	Methanol	Antipsychotic
70446	Phenacetin	Methanol	Analgesic
72233	L-Phenylalanine	Water	Amino acid
72234	Phenylbutazone	Methanol	Anti-Inflammatory
72235	Pindolol	Methanol	Cardiac Drug
72236	Piperacillin	Methanol	Antibiotic
72237	Piroxicam	Methanol	Anti-Inflammatory
72008	Potassium sorbate	Methanol	Antimicrobial/Preservative
71859	Prednisolone	Methanol	Glucocorticoid\Anti-Inflammatory
72240	Procainamide	Methanol	Cardiac Drug
72241	L-Proline	Water	Amino acid
70345	Propionic acid	Methanol	Antimicrobial/Preservative
72242	n-Propyl gallate (PG)	Methanol	Antioxidant
72243	Pyridoxine	Water	Vitamin B6
72244	Ranitidine	Methanol	Anti-Ulcer Compound
72245	L-Rhamnitol	Water	Sugar
72246	Ribitol	Water	Sugar
72247	Riboflavin	Water	Vitamin B2
72290	D-Ribose	Water	Sugar
72291	L-Ribose	Water	Sugar
72248	Saccharin hemicalcium salt	Water	Sweetener
72249	L-Serine	Water	Amino acid
72250	Sodium benzoate	Water	Antimicrobial/Preservative
72251	Sodium cyclamate	Water	Sweetener
72252	Sodium propionate	Methanol	Antimicrobial/Preservative
72253	Sodium saccharin	Water	Sweetener
72254	Sorbic acid	Water	Antimicrobial/Preservative
72255	D-Sorbitol	Water	Sugar alcohol
72256	L-Sorbose	Water	Sugar alcohol
71559	Stearic acid	Acetone	Fatty Acid

SINGLE COMPONENT SOLUTIONS

PHARMACEUTICALS / FOODS / FLAVORS AND NATURAL PRODUCTS

All solutions are 1000 ug/ml \$22/mL

Part#	Compound	Solvent	Description
72258	b-Sitosterol	Methanol	Sterol
72259	Stevioside	Water	Sweetener
72260	Stigmasterol	Methanol	Sterol
71800	Succinic acid	Methanol	Organic Acid
72262	Sulfamerazine	Methanol	Sulfa Drug
72263	Sulfamethazine	Methanol	Sulfa Drug
72264	Sulfanilamide	Methanol	Sulfa Drug
72265	Sulfathiazole	Methanol	Sulfa Drug
72266	Sulindac	Methanol	Anti-Inflammatory
72267	Tartaric acid	Methanol	Organic Acid
72268	Thiamine	Water	Vitamin B1
72269	L-Threonine	Water	Amino acid
72270	Thymine	Water	Nucleic acid
72271	(+)-a-Tocopherol	Methanol	Antioxidant/Vitamin
72273	∂-tocopherol	Methanol	Antioxidant/Vitamin
72274	g-tocopherol	Methanol	Antioxidant/Vitamin
72275	Tocopherol acetate	Methanol	Antioxidant/Vitamin
72277	Tolmetin	Methanol	Anti-Inflammatory
72278	2,4,6-Trihydrobutyrophenone	Methanol	Antioxidant
72279	Trimipramine	Methanol	Tricyclic antidepressant
72281	L-Tryptophan	Water	Amino acid
72282	L-Tyrosine	Water	Amino acid
72283	Uracil	Water	Nucleic acid
72285	L-Valine	Water	Amino acid
72286	Verapamil	Methanol	Cardiac Drug
70872	Warfarin (Coomadin)	Methanol	Anti-coagulant
72287	Xylitol	Water	Sugar
72288	D-Xylose	Water	Complex sugar

**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**

MIXES

Analgesics

Conc. (ug/mL) in Methanol

- | | |
|--------------------------|-----|
| (1) Dextromethorphan | 100 |
| (2) Acetylsalicylic acid | 50 |

Part # 67000 \$35/mL

Tricyclic Antidepressants

100 ug/mL in Methanol

- | | |
|-------------------|-----|
| (1) Amitriptyline | 100 |
| (2) Imipramine | 100 |
| (3) Trimipramine | 100 |

Part # 67002 \$35/mL

Cardiac Drugs

Conc. (ug/mL) in Methanol

- | | |
|------------------|-----|
| (1) Procainamide | 50 |
| (2) Pindolol | 30 |
| (3) Oxprenolol | 50 |
| (4) Dipyridamole | 100 |
| (5) Diltiazem | 30 |
| (6) Verapamil | 50 |
| (7) Digoxin | 50 |
| (8) Lidoflazine | 50 |
| (9) Flunarizine | 50 |
| (10) Nifedipine | 50 |

Part # 67005 \$45/mL

Cold Remedy Ingredients

Conc. (ug/mL) in Methanol

- | | |
|---------------------|-----|
| (1) Pseudoephedrine | 50 |
| (2) Acetaminophen | 100 |

Part # 67006 \$35/mL

Sinus Medications

100 ug/mL in Methanol

- | | |
|----------------------|-----|
| (1) Pseudoephedrine | 100 |
| (2) Paracetamol | 100 |
| (3) Chlorpheniramine | 100 |

Part # 67001 \$35/mL

Antihistamines

100 ug/mL in Methanol

- | | |
|----------------------|-----|
| (1) Maleic acid | 100 |
| (2) Doxylamine | 100 |
| (3) Chlorpheniramine | 100 |
| (4) Carbinroxamine | 100 |

Part # 67003 \$40/mL

Cephalosporins

100 ug/mL in Methanol

- | | |
|----------------|-----|
| (1) Cefadroxil | 100 |
| (2) Cefaclor | 100 |
| (3) Cephalexin | 100 |

Part # 67004 \$35/mL

**Antibiotics
(Fluoroquinolones)**

100 ug/mL in Methanol

- | | |
|-------------------|-----|
| (1) Ciprofloxacin | 100 |
| (2) Lomefloxacin | 100 |

Part # 67007 \$35/mL

MIXES

**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**
Anti-Inflammatory Drugs*Conc. (ug/mL) in Methanol*

(1) Hydrochlorothiazide	50
(2) Oxyphenbutazone	100
(3) Furosemide	100
(4) Phenylbutazone	100

Part # 67008 \$40/mL**Antihypertensive
ACE Inhibitors***100 ug/mL in Methanol*

(1) Enalapril	100
(2) Lisinopril	100
(3) Captopril	100

Part # 67010 \$35/mL**Anti-Inflammatory Drugs
Non-Steroidal***100 ug/mL in Methanol*

(1) Piroxicam	100
(2) Sulindac	100
(3) Tolmetin	100
(4) Ketoprofen	100
(5) Indomethacin	100
(6) Ibuprofen	100
(7) Diclofenac	100
(8) Mefanamic acid	100

Part # 67012 \$45/mL**Anti-hypertensive Drugs
(Beta/Calcium Channel Blockers)***100 ug/mL in Methanol*

(1) Captopril	100
(2) Pindolol	100
(3) Nifedipine	100
(4) Diltiazem	100
(5) Verapamil	100

Part # 67009 \$40/mL**Anti-Ulcer Compounds***100 ug/mL in Methanol*

(1) Ranitidine	100
(2) Cimetidine	100
(3) Famotidine	100

Part # 67011 \$35/mL**Antihypertensives-Diuretics***100 ug/mL in Methanol*

(1) Atenolol	100
(2) Amiloride	100
(3) Hydrochlorothiazide	100
(4) Caffeine	100

Part # 67013 \$35/mL

**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**

MIXES

Catecholamines

100 ug/mL in Methanol

- | | |
|------------------------------|-----|
| (1) Norepinephrine | 100 |
| (2) Epinephrine | 100 |
| (3) 3,4-Dihydroxybenzylamine | 100 |
| (4) Dopamine | 100 |

Part # 67014 \$35/mL

Sulfa Drugs

100 ug/mL in Methanol

- | | |
|--------------------|-----|
| (1) Sulfanilamide | 100 |
| (2) Sulfathiazole | 100 |
| (3) Sulfamerazine | 100 |
| (4) Sulfamethazine | 100 |

Part # 67015 \$35/mL

Tricyclic Antidepressants

100 ug/mL in Methanol

- | | |
|-------------------|-----|
| (1) Trimipramine | 100 |
| (2) Doxepin | 100 |
| (3) Amitriptyline | 100 |
| (4) Imipramine | 100 |
| (5) Nortriptyline | 100 |
| (6) Desipramine | 100 |

Part # 67016 \$40/mL

β -Lactam Antibiotics

100 ug/mL in Methanol

- | | |
|------------------|-----|
| (1) Amoxicillin | 100 |
| (2) Ampicillin | 100 |
| (3) Piperacillin | 100 |
| (4) Penicillin G | 100 |
| (5) Penicillin V | 100 |
| (6) Cloxacillin | 100 |

Part # 67017 \$40/mL

Antioxidants- Tocopherol

100 ug/mL in Methanol

- | | |
|--------------------------|-----|
| (1) δ -tocopherol | 100 |
| (2) gamma-tocopherol | 100 |
| (3) alpha-tocopherol | 100 |
| (4) tocopherol acetate | 100 |

Part # 67018 \$35/mL

MIXES**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS****Sugars***100 ug/mL in Methanol*

(1) Glyceraldehyde	100
(2) Rhamnitrol	100
(3) Fucitol	100
(4) Ribitol	100
(5) Arabinitol	100
(6) Xylitol	100
(7) Mannitol	100
(8) Galactitol	100
(9) Glucitol	100
(10) Inositol	100
(11) n-Acetyl galactose amine	100
(12) n-Acetyl glucose amine	100
(13) 2-Keto-3-deoxyoctanate	100

Part # 67019 \$45/mL**Sugars- Carbohydrates***100 ug/mL in Methanol*

(1) Rhamnitrol	100
(2) Fucitol	100
(3) Ribitol	100
(4) Arabinitol	100
(5) Mannitol	100
(6) Galactitol	100
(7) Glucitol	100
(8) Inositol	100

Part # 67020 \$45/mL**Antioxidants***100 ug/mL in Methanol*

- (1) Butylated hydroxytoluene (BHT)
- (2) Butylated hydroxyanisole (BHA)
- (3) Tert-butyl hydroquinone (TBHQ)
- (4) n-Propyl gallate (PG)

Part # 67021 \$35/mL

**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS**

MIXES

Sterols (Olive Oil)

Conc. (ug/mL) in Methanol

(1) Cholesterol	100
(2) Campesterol	100
(3) Stigmasterol	100
(4) β -Sitosterol	100

Part # 67022 \$35/mL

Cholesterol

100 ug/mL in Methanol

(1) 5-alpha-cholestane	100
(2) Coprosterol	100
(3) Cholesterol	100

Part # 67023 \$35/mL

Complex Sugars

Conc. (ug/mL) in Water

(1) L-Arabinose	100
(2) D-Ribose	100
(3) L-Ribose	100
(4) D-Xylose	100
(5) D-Fructose	100
(6) D-Galactose	100
(7) D-Glucose	100

Part # 67025 \$40/mL

Sterols

100 ug/mL in Methanol

(1) 5-alpha-cholestane	100
(2) Coprosterol	100
(3) Cholesterol	100
(4) Ergosterol	100
(5) Campesterol	100
(6) Stigmasterol	100
(7) β -Sitosterol	100
(8) Lanosterol	100

Part # 67024 \$45/mL

Sugar Alcohols

100 ug/mL in Water

(1) L-Arabinose	100
(2) Xylitol	100
(3) D-Arabinitol	100
(4) D-Mannose	100
(5) L-Sorbose	100
(6) D-Glucose	100
(7) D-Sorbitol	100
(8) Inositol	100

Part # 67027 \$40/mL

Mono & Disaccharides

100 ug/mL in Water

(1) Fructose	100
(2) Glucose	100
(3) Sucrose	100
(4) Maltose	100
(5) Lactose	100

Part # 67026 \$40/mL

MIXES**PHARMACEUTICALS / FOODS /
FLAVORS
AND NATURAL PRODUCTS****Alcoholic Beverage/Fermentation Components***100 ug/mL in Water*

- | | |
|-----------------------|-------------------------|
| (1) Acetaldehyde | (19) n-Butanol |
| (2) Methanol | (20) Ethyl isobutyrate |
| (3) Propanal | (21) 3-methyl-2-butanol |
| (4) Acetone | (22) 3-Pentanol |
| (5) Methyl acetate | (23) 2-Pentanol |
| (6) Ethanol | (24) Isobutyl acetate |
| (7) Isobutanol | (25) Ethyl butyrate |
| (8) Butanol | (26) Butyl acetate |
| (9) Isopropanol | (27) 2-methyl-1-butanol |
| (10) Ethyl acetate | (28) Acetic acid |
| (11) n-Propanol | (29) n-Pentanol |
| (12) Isopentanal | (30) Isoamyl acetate |
| (13) sec-Butanol | (31) Furfural |
| (14) Pentanal | (32) Propionic acid |
| (15) Ethyl propionate | (33) Hexanol |
| (16) Propyl acetate | (34) Isobutyric acid |
| (17) Isobutanol | (35) Butyric acid |
| (18) Acetal | |

Part # 67028 \$75/mL

Absolute Standards' Hamden, CT. Facility



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Fax Toll-Free 800-410-2577

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CUSTOM STANDARD QUOTATION REQUEST FORM

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Fax To: Page _____ of _____ Date: ____/____/____
(800) 410-2577, Technical Service Dept, Absolute Standards, Inc.

From:
Company Contact: _____

Company Name: _____

Company Address: _____

Company Phone: _____

Company Fax/Email: _____

Product Description: _____

Solvent: _____

Analysis Required - additional charge - (circle one): yes no

Date Required: ____/____/____

Requested Quantity (circle one): ORGANIC 5 x 1 mL 10 x 1 mL Other x mL

INORGANIC 1 x 100 mL 1 x 500 mL Other x mL

#	Component(s)	CAS # (optional)	Conc. (ug/mL)
(1)	_____	_____	_____
(2)	_____	_____	_____
(3)	_____	_____	_____
(4)	_____	_____	_____
(5)	_____	_____	_____
(6)	_____	_____	_____
(7)	_____	_____	_____
(8)	_____	_____	_____
(9)	_____	_____	_____
(10)	_____	_____	_____

NOTES