



To help laboratories comply with and use these analytical procedures, Restek has been active in following the state guidance. Based on our good knowledge of the methods, our experienced chemists have developed a list of the appropriate technical service tools and analytical products to achieve success with these methods. We offer quality chromatographic columns, analytical reference materials, and sample preparation products. In this comprehensive product listing, you will find everything you need to quickly set up or reorder consumables for these methods. Please refer to our latest product catalog, or call 800-356-1688 or 814-353-1300, ext. 3, for more information. Also, we will be happy to provide a quote on any custom consumable you may need!

**Regulatory and Analytical Methodology Contact Information**

**California State Water Resources Control Board**

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**The California State Water Resources Control Board web site is located at**  
<http://www.swrcb.ca.gov/cwphome/ust/>



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# Underground Storage Tank Monitoring State Of California

- ✓ Comprehensive products listing for the latest UST methods used by the State of California.
- ✓ Conveniently organized by method number.
- ✓ Easy method set-up and reorder of consumables, including:
  - Gas chromatography columns and accessories,
  - Analytical reference materials,
  - Sample preparation supplies,
  - Technical service.

In 1985, the California Department of Health Services and the State Water Resource Control Board (SWRCB) formed the Leaking Underground Fuel Tank (LUFT) task force to establish procedures for determining if an underground storage fuel tank site is clean and safe. In 1989 the task force published a LUFT field manual setting up guidelines for site assessment, cleanup, and underground storage tank closure. Within the field manual, the task force mandated a DHS analytical method for petroleum storage tank applications, known as LUFT method.

In 1993, SWRCB released the Underground Storage Tank (UST) Closure Guideline to comply with the US Environmental Protection Agency (EPA) UST 1998 deadline. SWRCB approved standard EPA methods for California UST analysis are listed in Table I. EPA 8015B is for gasoline and gasoline range organics (GRO) by GC/FID/purge and trap, with optional BTEX by PID; this is known as the California GRO method. EPA 8015B is for diesel range organics (DRO) and motor oil range organics (MORO) by GC/FID; this is known as the California DRO method.

While SWRCB is the head agency for California's UST program, and regulates the analytical procedures, each of the eight regional UST offices requires specific analyses of its target list of petroleum contaminants. The California UST program is diversified, in terms of contaminant lists that must be analyzed in different regions, but is unified under the guidelines of SWRCB. For example, Los Angeles region requires TPHG (gasoline range), BTEX, and MTBE. The central valley region, however, requires TPH and a list of oxygenates, methanol, ethanol, tertiary butyl alcohol (TBA), methyl *tert*-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE) and tertiary amyl methyl ether (TAME).

**Table I.** California Guide for the Analysis of Petroleum Hydrocarbon Residues

	<b>Soil, solids, sludge</b>	<b>Water</b>
Gasoline	8015B	8015B
BTEX	8021B	8021B 8260B
	(with PID in series)	(with PID in series)
MTBE & Oxygenates	8021B	8021B, 8260B
Diesel	8015B	8015B
PAHs	8270D	8270D
Kerosene	8015B	8015B
Motor oil	8015B	8015B



## California

### Gas Chromatography Columns & Accessories

For these items, see Restek's Chromatography Products Catalog:

- Syringes
- Autosampler Vials
- Guard Columns
- Ferrules, Septa

### Recommended Gas Chromatography Columns

Rtx®-5, 30m x 0.25mm

Film Thickness	temp. limits	Cat. #
0.25µm	-60 to 330/350°C	10223
0.50µm	-60 to 330/350°C	10238
1.00µm	-60 to 320/340°C	10253

### Integra-Guard™ Columns

Guard and analytical column in one connectionless length.

\*Add the appropriate suffix number to analytical column catalog number.

ID	Length	Suffix#*
0.25mm	5m	-124
	10m	-127

### Syringes

Standard Micro-Liter Syringes for Agilent 7673 and 7683 Autosamplers

Size	Needle Gauge	6-pk.
10µL	23s	20169
10µL	23s-26s	24600

### Autosampler Vials

Crimp Top Vial Snap Seal™ Style (12 x 32mm, 11mm Crimp)

Description*	1,000-pk.
2.0mL Clear Glass Vial w/White Graduated Marking Spot	24384
2.0mL Amber Glass Vial w/White Graduated Marking Spot	24386

\*Marking spots are available on request in blue, green, rust or yellow.

### Aluminum Crimp Seals w/Septa

Description	1,000-pk.
Silver Seal, PTFE/Natural Rubber Septa	21175
Silver Seal, PTFE/Silicone Septa*	24360

\*PTFE/Silicone/PTFE available on request.

### Thermolite® Septa

Size	temp. limits	25-pk.	50-pk.	100-pk.
11mm (7/16")	to 340°C	20363	20364	20365

### Replacement Inlet Seals

Stainless Steel Inlet Seal for Single-Column Installation\*

Size	2-pk.	10-pk.
0.8mm ID	21315	21316

\*Equivalent to Agilent Part# 18740-20880.

### Inlet Liners

For Agilent GCs

Description	ID / OD & Length (mm)	ea.	5-pk.
Uniliner**	4.0 ID, 6.3 OD x 78.5	20335	20336
Drilled Uniliner®	4.0 ID, 6.3 OD x 78.5	21054	21055
1mm Split**	1.0 ID, 6.3 OD x 78.5	20972	20973

\*Restek design improves performance over the original Agilent liner.

\*\*Use this liner for increased sensitivity.

### Low Volume Injector for Agilent GCs

Description	kit.
Low-Volume Injector for Agilent Split/Splitless GC Inlets	21692

## Analytical Reference Materials

### EPA 8015B, 8021B, and 8260B

To determine gasoline and GRO in water, wastewater, soil and solid waste based on solvent extraction, purge and trap, GC/FID with optional PID in series for BTEX and GC/MS.

### California Gasoline Range Organics (GRO)

#### 8015B

#### Retention Time Marker

<i>n</i> -hexane (C6)	<i>n</i> -decane (C10)	<i>n</i> -dodecane (C12)
1,000µg/mL each in P&T methanol, 1mL/ampul		
Each	5-pk.	10-pk.
30483	30483-510	—
w/data pack		
30483-500	30483-520	30583

### Unleaded Gasoline Composite Standard

2,500µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30081	30081-510	—
w/data pack		
30081-500	30081-520	30181

50,000µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30205	30205-510	—
w/data pack		
30205-500	30205-520	30305

50,000µg/mL in P&T methanol, 5mL/ampul

Each	5-pk.	10-pk.
30206	30206-510	—
w/data pack		
30206-500	30206-520	30306

### Certified BTEX in Unleaded Gas Composite Standard

Certified for:

benzene*	methyl <i>tert</i> -butyl ether*	<i>m</i> -xylene*
ethylbenzene*	naphthalene*	<i>o</i> -xylene*
isopropyl benzene*	toluene*	<i>p</i> -xylene*

5,500ppm gasoline in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30237	30237-510	—
w/data pack		
30237-500	30237-520	30337

\*Concentration varies lot to lot. See Certificate of Analysis for certified concentrations. See <http://www.restekcorp.com> for current Certificate of Analysis.

### Certified Aromatics in Gasoline (16 components)

Certified for:

benzene*	methyl <i>tert</i> -butyl ether*	1,3,5-trimethylbenzene*
ethylbenzene*	naphthalene*	<i>m</i> -xylene*
<i>m</i> -ethyltoluene*	<i>n</i> -propylbenzene*	<i>o</i> -xylene*
<i>o</i> -ethyltoluene*	toluene*	<i>p</i> -xylene*
<i>p</i> -ethyltoluene*	1,2,3-trimethylbenzene*	
isopropylbenzene*	1,2,4-trimethylbenzene*	

5,500ppm gasoline in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30485	30485-510	—
w/data pack		
30485-500	30485-520	30585

\*Concentration varies lot to lot. See Certificate of Analysis for certified concentrations. See <http://www.restekcorp.com> for current Certificate of Analysis.

## 8021B

### BTEX Standard

benzene	toluene	<i>o</i> -xylene
ethylbenzene	<i>m</i> -xylene	<i>p</i> -xylene

200µg/mL each in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30051	30051-510	—
<b>w/data pack</b>		
30051-500	30051-520	30151

2,000µg/mL each in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30213	30213-510	—
<b>w/data pack</b>		
30213-500	30213-520	30313

2,000µg/mL each in P&T methanol, except *m*-xylene and *p*-xylene at 1,000µg/mL, 1mL/ampul

Each	5-pk.	10-pk.
30488	30488-510	—
<b>w/data pack</b>		
30488-500	30488-520	30588

### PVOC Mix (California) (7 components)

benzene	toluene	<i>p</i> -xylene
ethylbenzene	<i>m</i> -xylene	
methyl <i>tert</i> -butyl ether	<i>o</i> -xylene	

1,000µg/mL each in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30231	30231-510	—
<b>w/data pack</b>		
30231-500	30231-520	30331

### CA WIP VOA Standard (11 components)

benzene	1,4-dichlorobenzene	<i>m</i> -xylene
chlorobenzene	ethylbenzene	<i>o</i> -xylene
1,2-dichlorobenzene	methyl <i>tert</i> -butyl ether	<i>p</i> -xylene
1,3-dichlorobenzene	toluene	

2,000µg/mL each in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30236	30236-510	—
<b>w/data pack</b>		
30236-500	30236-520	30336

### Surrogate and Internal Standards

#### 1-Chloro-4-fluorobenzene Mix

2,500µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30066	30066-510	—
<b>w/data pack</b>		
30066-500	30066-520	30166

#### α,α,α-Trifluorotoluene Mix

2,500µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30068	30068-510	—
<b>w/data pack</b>		
30068-500	30068-520	30168

10,000µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30083	30083-510	—
<b>w/data pack</b>		
30083-500	30083-520	30183

#### 1-Chlorooctane Mix

10,000µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30084	30084-510	—
<b>w/data pack</b>		
30084-500	30084-520	30184

## 4-Bromofluorobenzene Mix

2,500µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30067	30067-510	—
<b>w/data pack</b>		
30067-500	30067-520	30167

10,000µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30082	30082-510	—
<b>w/data pack</b>		
30082-500	30082-520	30182

## 8260B (VOA)

### California Oxygenates Mix

diisopropyl ether	2,000µg/mL
ethyl- <i>tert</i> -butyl ether	2,000
<i>tert</i> -amyl methyl ether	2,000
<i>tert</i> -butyl alcohol	10,000
methyl <i>tert</i> -butyl ether	2,000

In P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30465	30465-510	—
<b>w/data pack</b>		
30465-500	30465-520	30565

## 8260B MegaMix™ Calibration Mix (76 + 1 components)

Note: This product is provided as a two ampul set:

#### Ampule 1

acetonitrile	<i>cis</i> -1,4-dichloro-2-butene	naphthalene
acrylonitrile	<i>trans</i> -1,4-dichloro-2-butene	nitrobenzene
allyl chloride	1,1-dichloroethane	2-nitropropane
benzene	1,2-dichloroethane	pentachloroethane
bromobenzene	1,1-dichloroethene	propionitrile
bromochloromethane	<i>cis</i> -1,2-dichloroethene	<i>n</i> -propylbenzene
bromodichloromethane	<i>trans</i> -1,2-dichloroethene	styrene
bromoform	1,2-dichloropropane	1,1,1,2-tetrachloroethane
<i>n</i> -butylbenzene	1,3-dichloropropane	1,1,2,2-tetrachloroethane
<i>sec</i> -butylbenzene	2,2-dichloropropane	tetrachloroethene
<i>tert</i> -butylbenzene	1,1-dichloropropene	tetrahydrofuran
carbon disulfide	<i>cis</i> -1,3-dichloropropene	toluene
carbon tetrachloride	<i>trans</i> -1,3-dichloropropene	1,2,3-trichlorobenzene
chlorobenzene	diethyl ether	1,2,4-trichlorobenzene
2-chloroethanol	1,4-dioxane	1,1,1-trichloroethane
chloroform	ethylbenzene	1,1,2-trichloroethane
chloroprene	ethyl methacrylate	trichloroethene
2-chlorotoluene	hexachlorobutadiene	1,2,3-trichloropropane
4-chlorotoluene	iodomethane	1,1,2-trichlorotrifluoroethane (Freon® 113)
dibromochloromethane	isobutyl alcohol	1,2,4-trimethylbenzene
1,2-dibromo-3-chloropropane	isopropylbenzene	1,3,5-trimethylbenzene
1,2-dibromoethane	<i>p</i> -isopropyltoluene	<i>m</i> -xylene
dibromomethane	methacrylonitrile	<i>o</i> -xylene
1,2-dichlorobenzene	methyl acrylate	<i>p</i> -xylene
1,3-dichlorobenzene	methyl methacrylate	
1,4-dichlorobenzene	methylene chloride	

2,000µg/mL each in P&T methanol, 1mL/ampul

#### Ampule 2

2-chloroethyl vinyl ether

2,000µg/mL in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30475	30475-510	—
<b>w/data pack</b>		
30475-500	30475-520	30575

Request a quote on customer ready-to-use solutions. Use the convenient Custom Reference Materials Request Form on-line at [www.restekcorp.com/stdreq.htm](http://www.restekcorp.com/stdreq.htm)

## Methanol Mix

10,000µg/mL in DI water, 1mL/ampul

Each	5-pk.	10-pk.
30467	30467-510	—
	<b>w/data pack</b>	
30467-500	30467-520	30567

## Ethanol Mix

10,000µg/mL in DI water, 1mL/ampul

Each	5-pk.	10-pk.
30466	30466-510	—
	<b>w/data pack</b>	
30466-500	30466-520	30566

## Surrogate and Internal Standards

### 8260A/B Internal Standard Mix

chlorobenzene-d5      1,4-dichlorobenzene-d4      fluorobenzene  
2,500µg/mL each in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30241	30241-510	—
	<b>w/data pack</b>	
30241-500	30241-520	30341

### 8260A/B Surrogate Mix

4-bromofluorobenzene      1,2-dichloroethane-d4  
dibromofluoromethane      toluene-d8  
2,500µg/mL each in P&T methanol, 1mL/ampul

Each	5-pk.	10-pk.
30240	30240-510	—
	<b>w/data pack</b>	
30240-500	30240-520	30340

## California Diesel Range Organics/Motor Oil Range Organics 8015B

### Diesel Fuel #2 Composite Standard

5,000µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31093	31093-510	—
	<b>w/data pack</b>	
31093-500	31093-520	31193

50,000µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31258	31258-510	—
	<b>w/data pack</b>	
31258-500	31258-520	31358

50,000µg/mL in methylene chloride, 5mL/ampul

Each	5-pk.	10-pk.
31259	31259-510	—
	<b>w/data pack</b>	
31259-500	31259-520	31359

### Motor Oil Composite Standard

50,000µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31464	31464-510	—
	<b>w/data pack</b>	
31464-500	31464-520	31564

## Alternate Boiling Point/Carbon Number

### Distribution Marker Stock Standard (9 components)

*n*-hexane (C6)      *n*-dodecane (C12)      *n*-octacosane (C28)  
*n*-octane (C8)      *n*-hexadecane (C16)      *n*-pentatriacontane (C35)  
*n*-decane (C10)      *n*-heneicosane (C21)      *n*-hexatriacontane (C36)  
200µg/mL each in pentane, 1mL/ampul

Each	5-pk.	10-pk.
31639	31639-510	—
	<b>w/data pack</b>	
31639-500	31639-520	31739

### Connecticut ETPH Calibration Mixture (15 components)

*n*-nonane (C9)      *n*-octadecane (C18)      *n*-octacosane (C28)  
*n*-decane (C10)      *n*-eicosane (C20)      *n*-triacontane (C30)  
*n*-dodecane (C12)      *n*-docosane (C22)      *n*-dotriacontane (C32)  
*n*-tetradecane (C14)      *n*-tetracosane (C24)      *n*-tetracontane (C34)  
*n*-hexadecane (C16)      *n*-hexacosane (C26)      *n*-hexatriacontane (C36)  
1,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31614	31614-510	—
	<b>w/data pack</b>	
31614-500	31614-520	31714

### WA EPH Aliphatic Hydrocarbon Mix

*n*-octane (C8)      *n*-dodecane (C12)      *n*-heneicosane (C21)  
*n*-decane (C10)      *n*-hexadecane (C16)      *n*-tetracontane (C34)  
1,000µg/mL each in hexane, 1mL/ampul

Each	5-pk.	10-pk.
31489	31489-510	—
	<b>w/data pack</b>	
31489-500	31489-520	31589

### Certified PAHs in Diesel (7 components)

Certified PAHs	Typical Certified Conc. (ppm)		
acenaphthene	20*	2-methylnaphthalene	180*
acenaphthylene	14*	naphthalene	90*
fluorene	32*	phenanthrene	47*
1-methylnaphthalene	269*		

50,000ppm diesel #2 in methylene chloride, typical PAH concentrations listed above, 1mL/ampul

Each	5-pk.	10-pk.
31673	31673-510	—
	<b>w/data pack</b>	
31673-500	31673-520	31773

\*Concentration varies lot to lot. See Certificate of Analysis for certified concentrations. See <http://www.restekcorp.com> for current Certificate of Analysis.

## Surrogate and Internal Standards

### *p*-Terphenyl Standard

10,000µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31095	31095-510	—
	<b>w/data pack</b>	
31095-500	31095-520	31195

### *o*-Terphenyl Standard

10,000µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31097	31097-510	—
	<b>w/data pack</b>	
31097-500	31097-520	31197

### 5- $\alpha$ -Androstane

2,000µg/mL in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31065	31065-510	—
	<b>w/data pack</b>	
31065-500	31065-520	31165

## 8270 (SV)

### 8270 MegaMix™ (76 components)

acenaphthene	dibenzofuran	1-methylnaphthalene
acenaphthylene	1,2-dichlorobenzene	2-methylnaphthalene
aniline	1,3-dichlorobenzene	2-methylphenol
anthracene	1,4-dichlorobenzene	3-methylphenol*
azobenzene <sup>1</sup>	2,4-dichlorophenol	4-methylphenol*
benzo(a)anthracene	diethyl phthalate	naphthalene
benzo(a)pyrene	dimethyl phthalate	2-nitroaniline
benzo(b)fluoranthene	2,4-dimethylphenol	3-nitroaniline
benzo(ghi)perylene	1,2-dinitrobenzene	4-nitroaniline
benzo(k)fluoranthene	1,3-dinitrobenzene	nitrobenzene
benzyl alcohol	1,4-dinitrobenzene	2-nitrophenol
benzyl butyl phthalate	4,6-dinitro-2-methylphenol	4-nitrophenol
bis 2-ethylhexyl adipate	2,4-dinitrophenol	N-nitrosodimethylamine
bis(2-chloroethoxy)methane	2,4-dinitrotoluene	N-nitroso-di-n-propylamine
bis(2-chloroethyl)ether	2,6-dinitrotoluene	pentachlorophenol
bis(2-chloroisopropyl)ether	di-n-butyl phthalate	phenanthrene
bis(2-ethylhexyl)phthalate	di-n-octyl phthalate	phenol
4-bromophenyl phenyl ether	diphenylamine <sup>2</sup>	pyrene
carbazole	fluorene	pyridine
4-chloroaniline	fluoranthene	2,3,4,6-tetrachlorophenol
4-chloro-3-methylphenol	hexachlorobenzene	2,3,5,6-tetrachlorophenol
2-chloronaphthalene	hexachlorobutadiene	1,2,4-trichlorobenzene
2-chlorophenol	hexachlorocyclopentadiene	2,4,5-trichlorophenol
4-chlorophenyl phenyl ether	hexachloroethane	2,4,6-trichlorophenol
chrysene	indeno(1,2,3-cd)pyrene	
dibenz(a,h)anthracene	isophorone	

1,000µg/mL each (except where noted) in methylene chloride:benzene (75:25), 1mL/ampul

Each	5-pk.	10-pk.
31686	31686-510	—
<b>w/data pack</b>		
31686-500	31686-520	31786

\*3-methylphenol and 4-methylphenol concentration is 500µg/mL each.

<sup>1</sup>1,2-diphenylhydrazine (8270-listed analyte) decomposes to azobenzene (mix component).

<sup>2</sup>N-nitrosodiphenylamine (8270-listed analyte) decomposes to diphenylamine (mix component).

### 8270 Calibration Mix #5 (19 components)

acenaphthene	benzo(k)fluoranthene	1-methylnaphthalene
acenaphthylene	chrysene	2-methylnaphthalene
anthracene	dibenz(a,h)anthracene	naphthalene
benzo(a)anthracene	fluoranthene	phenanthrene
benzo(a)pyrene	fluorene	pyrene
benzo(b)fluoranthene	ideno(1,2,3-cd)pyrene	
benzo(ghi)perylene	3-methylcholanthrene	

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31622	31622-510	—
<b>w/data pack</b>		
31622-500	31622-520	31722

## Surrogate and Internal Standards

### SV Internal Standard Mix

acenaphthene-d10	1,4-dichlorobenzene-d4	perylene-d12
chrysene-d12	naphthalene-d8	phenanthrene-d10

2,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31206	31206-510	—
<b>w/data pack</b>		
31206-500	31206-520	31306

4,000µg/mL each in methylene chloride, 1mL/ampul\*\*

Each	5-pk.	10-pk.
31006	31006-510	—
<b>w/data pack</b>		
31006-500	31006-520	31106

\*\* Requires special handling (warming and sonication) before use.

## Acid Surrogate Mix (4/89 SOW)

2-fluorophenol phenol-d6 2,4,6-tribromophenol  
2,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31025	31025-510	—
<b>w/data pack</b>		
31025-500	31025-520	31125

10,000µg/mL each in methanol, 1mL/ampul

Each	5-pk.	10-pk.
31063	31063-510	—
<b>w/data pack</b>		
31063-500	31063-520	31163

10,000µg/mL each in methanol, 5mL/ampul

Each	5-pk.	10-pk.
31087	31087-510	—
<b>w/data pack</b>		
31087-500	31087-520	31187

## B/N Surrogate Mix (4/89 SOW)

2-fluorobiphenyl nitrobenzene-d5 p-terphenyl-d14  
1,000µg/mL each in methylene chloride, 1mL/ampul

Each	5-pk.	10-pk.
31024	31024-510	—
<b>w/data pack</b>		
31024-500	31024-520	31124

5,000µg/mL each in methylene chloride, 1mL/ampul\*\*

Each	5-pk.	10-pk.
31062	31062-510	—
<b>w/data pack</b>		
31062-500	31062-520	31162

5,000µg/mL each in methylene chloride, 5mL/ampul\*\*

Each	5-pk.	10-pk.
31086	31086-510	—
<b>w/data pack</b>		
31086-500	31086-520	31186

\*\*Requires special handling (warming and sonication before use).

### Additional UST Publications

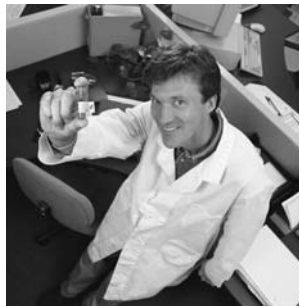
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