

# Biosolve Solvents

Bio-lab Laboratories Ltd.



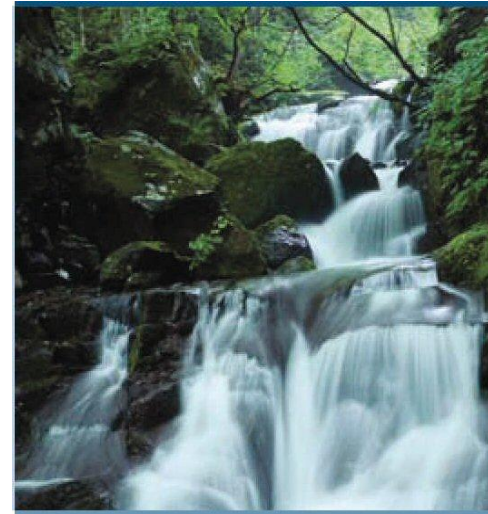
Biosolve Products are distributed by:

**Greyhound Chromatography and Allied Chemicals**  
6 Kelvin Park, Birkenhead, Merseyside CH41 1LT  
United Kingdom  
Tel: (+44) 0 151 649 4000 Fax: (+44) 0 151 649 4001  
Email: [sales@greyhoundchrom.com](mailto:sales@greyhoundchrom.com)  
[www.greyhoundchrom.com](http://www.greyhoundchrom.com)

## ULC/MS



High resolution and sensitivity  
Micro filtered at 0,1 µm  
Solvents and formulations

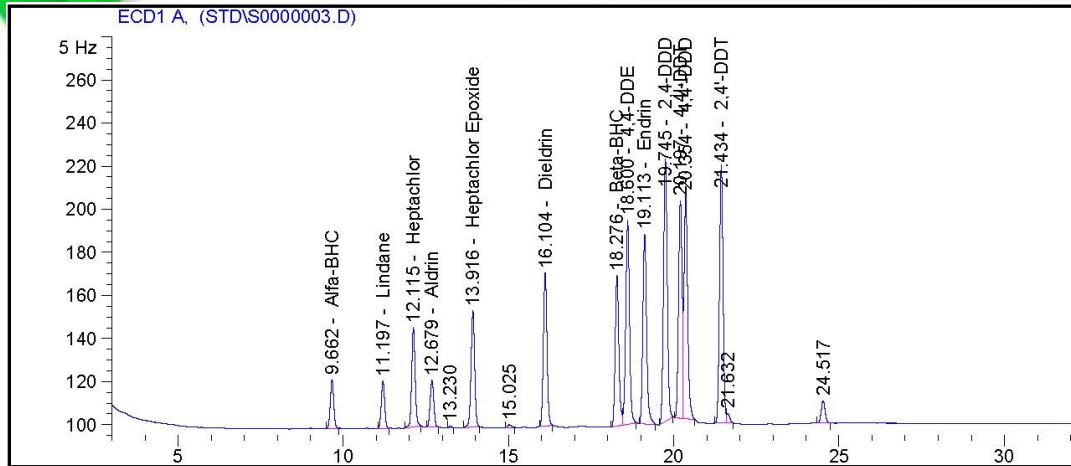


**Biosolve**  
**B**  
Because you need quality!



[www.sales@greyhoundchrom.com](http://www.sales@greyhoundchrom.com)

# Solvents for Environmental analysis



## Area Percent Report

Sorted By : Signal  
 Calib. Data Modified : 28/05/2008 11:53:09 PM  
 Multiplier : 1.0000  
 Dilution : 1.0000  
 Sample Amount : 1.00000 [ng/ul] (not used in calc.)

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [5 Hz*s]	Area %	Name
1	5.840		0.0000	0.00000	0.00000	2-chlorobiphenyl
2	9.662	BB	0.0855	162.03798	2.21472	Alfa-BHC
3	11.197	BB	0.0873	154.86606	2.11669	Lindane
4	11.967		0.0000	0.00000	0.00000	2,4,5-TCB
5	12.115	BB	0.0982	335.14426	4.58072	Heptachlor
6	12.679	BV	0.0928	166.34525	2.27359	Aldrin
7	13.916	BB	0.1017	412.94748	5.64412	Heptachlor Epoxide
8	14.160		0.0000	0.00000	0.00000	Parathion
9	16.104	BB	0.0975	543.53601	7.42899	Dieldrin
10	18.276	BV	0.0996	540.19696	7.38335	Beta-BHC
11	18.600	VB	0.0992	754.30933	10.30982	4,4-DDE
12	19.113	BB	0.1029	701.51019	9.58817	Endrin
13	19.745	BB	0.0988	960.59601	13.12932	2,4-DDD
14	20.197	PV	0.0942	752.12134	10.27991	4,4'-DDT
15	20.354	VB	0.0968	807.76746	11.04048	4,4'-DDD
16	21.434	BV	0.1048	900.37787	12.30627	2,4'-DDT
17	22.860		0.0000	0.00000	0.00000	2,3,7,8-Dioxine
18	30.460		0.0000	0.00000	0.00000	Deca-PCB

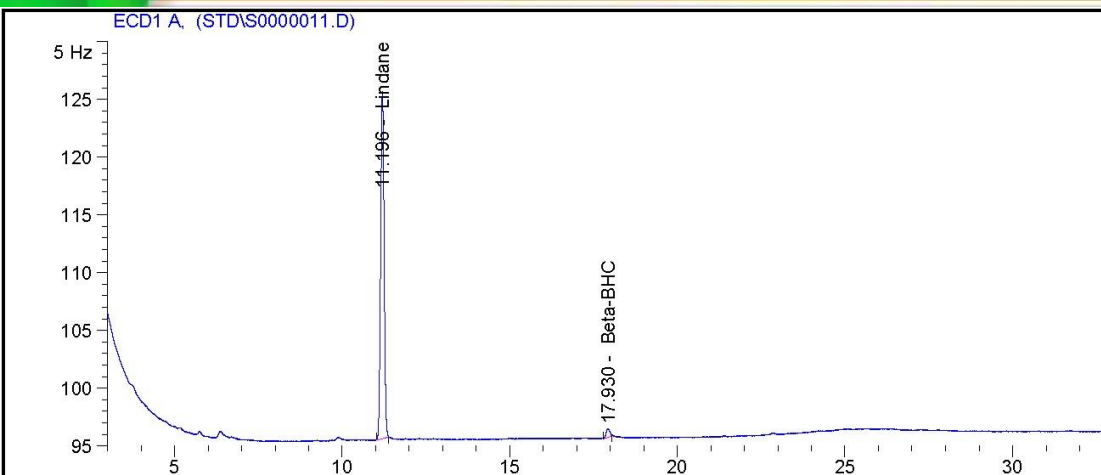
Totals : 7191.75618 98.2962

- Solvents for Extraction- Concentration methods.
- Suitable for EPA methods.
- Each batch is tested against internal standards.
- Each batch is tested after 1000:1 concentration.



# Pesti-S grade < 5ppb as Lindane

Bio-lab Laboratories Ltd.



## Area Percent Report

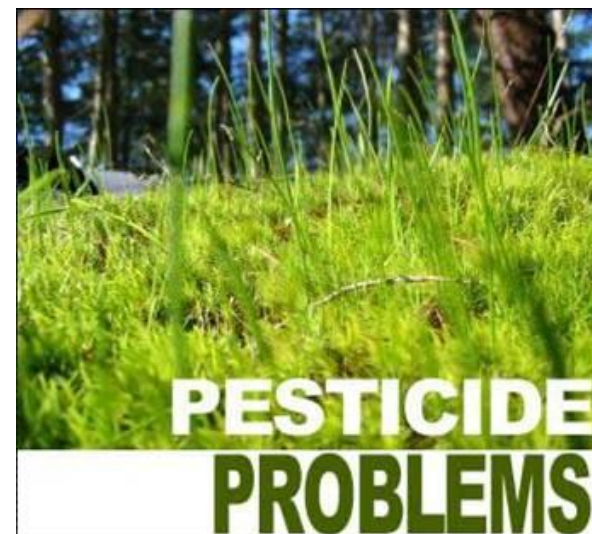
```
Sorted By      : Signal
Calib. Data Modified : 28/05/2008 11:53:09 PM
Multiplier     : 1.0000
Dilution       : 1.0000
Sample Amount  : 1.00000 [ng/ul] (not used in calc.)
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [5 Hz*s]	Area %	Name
1	5.840		0.0000	0.00000	0.00000	2-chlorobiphenyl
2	9.662		0.0000	0.00000	0.00000	Alfa-BHC
3	11.196	BP	0.0890	215.79961	97.53590	Lindane
4	11.967		0.0000	0.00000	0.00000	2,4,5-TCB
5	12.115		0.0000	0.00000	0.00000	Heptachlor
6	12.679		0.0000	0.00000	0.00000	Aldrin
7	13.920		0.0000	0.00000	0.00000	Heptachlor Epoxide
8	14.160		0.0000	0.00000	0.00000	Parathion
9	16.104		0.0000	0.00000	0.00000	Dieldrin
10	17.930	PB	0.0860	5.45186	2.46410	Beta-BHC
11	18.600		0.0000	0.00000	0.00000	4,4'-DDE
12	19.113		0.0000	0.00000	0.00000	Endrin
13	19.745		0.0000	0.00000	0.00000	2,4-DDD
14	20.197		0.0000	0.00000	0.00000	4,4'-DDT
15	20.354		0.0000	0.00000	0.00000	4,4'-DDD
16	21.434		0.0000	0.00000	0.00000	2,4'-DDT
17	22.860		0.0000	0.00000	0.00000	2,3,7,8-Dioxine
18	30.460		0.0000	0.00000	0.00000	Deca-PCB

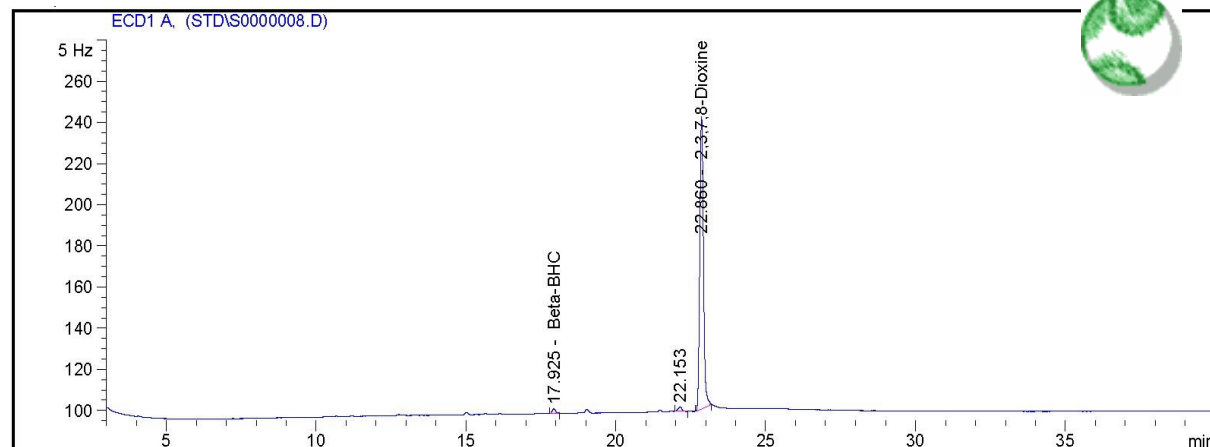
Totals : 221.25146 100.0000

- Solvents suitable for all analysis of common Pesticides
- Each batch is tested after 1000:1 concentration.
- Each batch is tested against internal standard Lindane <5ppb.



# Dioxin & PCB grade

- Solvents suitable for all analysis of 209 PCB range, from 2-PCB to Deca-PCB, including TCDD isomers, (Mainly 2,3,7,8-TCDD).
- Each batch is tested after 1000:1 concentration.
- Samples tested against internal standard of <5ppb 2,3,7,8-TCDD.



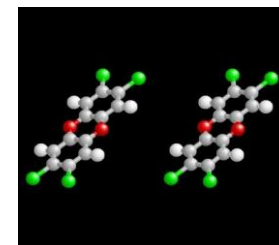
## Area Percent Report

Sorted By : Signal  
 Calib. Data Modified : 28/05/2008 11:53:09 PM  
 Multiplier : 1.0000  
 Dilution : 1.0000  
 Sample Amount : 1.00000 [ng/ul] (not used in calc.)

Signal 1: ECD1 A,

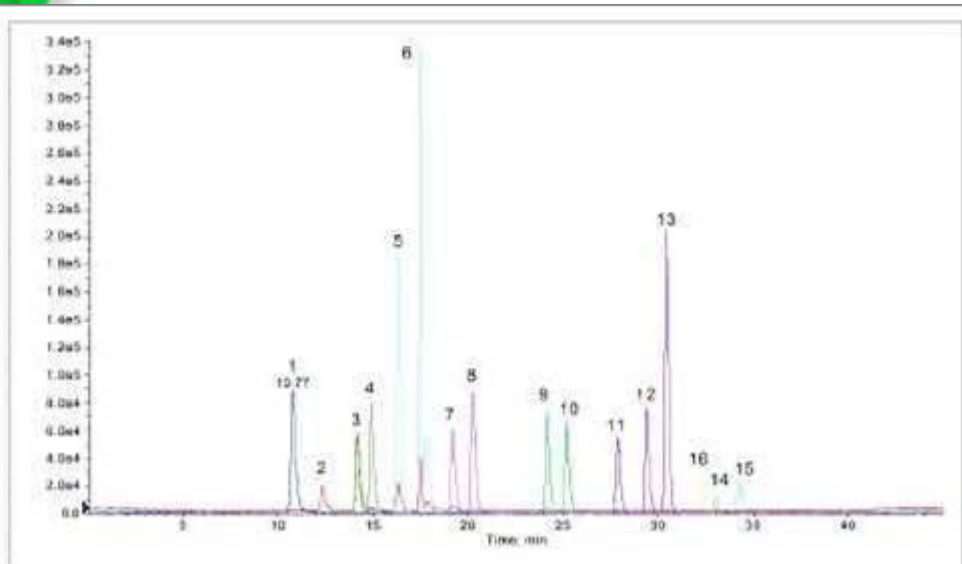
Peak #	RetTime [min]	Type	Width [min]	Area [5 Hz*s]	Area %	Name
1	5.840		0.0000	0.00000	0.00000	2-chlorobiphenyl
2	9.662		0.0000	0.00000	0.00000	Alfa-BHC
3	11.200		0.0000	0.00000	0.00000	Lindane
4	11.967		0.0000	0.00000	0.00000	2,4,5-TCB
5	12.115		0.0000	0.00000	0.00000	Heptachlor
6	12.679		0.0000	0.00000	0.00000	Aldrin
7	13.920		0.0000	0.00000	0.00000	Heptachlor Epoxide
8	14.160		0.0000	0.00000	0.00000	Parathion
9	16.104		0.0000	0.00000	0.00000	Dieldrin
10	17.925	PB	0.0932	18.01137	1.44230	Beta-BHC
11	18.600		0.0000	0.00000	0.00000	4,4-DDE
12	19.113		0.0000	0.00000	0.00000	Endrin
13	19.745		0.0000	0.00000	0.00000	2,4-DDD
14	20.197		0.0000	0.00000	0.00000	4,4'-DDT
15	20.354		0.0000	0.00000	0.00000	4,4'-DDD
16	21.434		0.0000	0.00000	0.00000	2,4'-DDT
17	22.860	PB	0.1074	1211.73511	97.03268	2,3,7,8-Dioxine
18	30.460		0.0000	0.00000	0.00000	Deca-PCB

Totals : 1229.74648 98.4750



# PAH - Polycyclic Aromatic Hydrocarbons grade

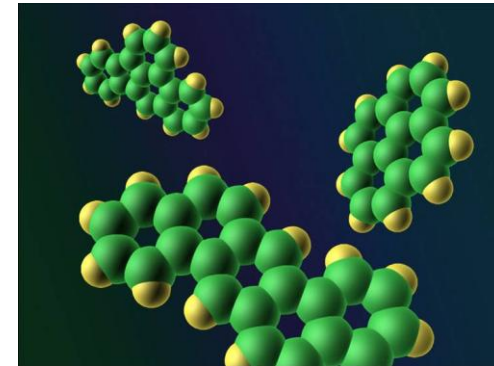
Bio-lab Laboratories Ltd.



Reversed phase chromatography.

			(pg on column)	(pg on column)
1	Naphthalene	128	100	1000
2	Acenaphthylene	152	200	4000
3	Acenaphthene	154	10	500
4	Fluorene	166	20	400
5	Phenanthrene	178	5*	400
6	Anthracene	178	5*	400
7	Fluoranthene	202	10	400
8	Pyrene	202	10	400
9	Benzo(a)anthracene	228	5*	100
10	Chrysene	228	5*	100
11	Benzo(b)fluoranthene	252	10*	400
12	Benzo(k)fluoranthene	252	10*	400
13	Benzo(a)pyrene	252	10	40
14	Benzo(g,h,i)perylene	276	20	100
15	Indeno(1,2,3,c,d)pyrene	276	20	100
16	Dibenz(a,h)anthracene	278	20	100

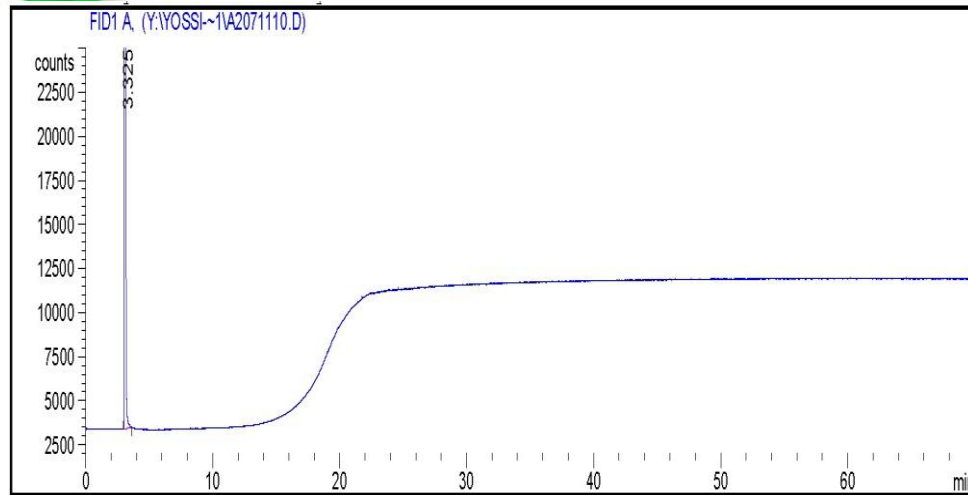
Limits of detection for 16 common PAHs under normal phase and reversed phase conditions.



- Solvents for PAH analysis, tested in the range of 16 PAH standards recommended by EPA.
- Each batch is tested after 1000:1 concentration.
- Each batch is tested against internal standard <2ppb PAH.

# LV-GC grade

Bio-lab Laboratories Ltd.



## Area Percent Report

Sorted By : Signal  
Calib. Data Modified : 5/20/2008 5:35:38 PM  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Area %	Name
1	3.325	PBA+	0.0580	2.19718e8	1.000e2	?
2	4.166		0.0000	0.00000	0.00000	n-Decane(C10)
3	4.764		0.0000	0.00000	0.00000	n-Undecane (C11)
4	5.637		0.0000	0.00000	0.00000	n-Dodecane (C12)
5	12.654		0.0000	0.00000	0.00000	n-Heptadecane( C17)
6	35.914		0.0000	0.00000	0.00000	Dotriacontane (C32)
7	56.000		0.0000	0.00000	0.00000	Tetracontane (C40)

Totals : 2.19718e8

- Solvents suitable for Environmental analysis, tested for:
- Hydrocarbons C<sub>10</sub>-C<sub>40</sub> <0.1ppm
- FID suitability <10ppm as 2-Octanol
- Pesticide analysis <5ppb as Lindane
- Dioxine & PCB tested <5ppb as TCDD
- PAH suitability by UV and Fluorecence detectors
- Extremely low volatile residues.
- High UV transmittance.
- Each batch is tested after 1000:1 concentration.

