

## PAH Mixes

These mixes have been designed by our customers, many for European methodology. Should you not find a mix that meets your needs, please telephone or fax us with your requirements, including a list of components, concentrations, solvent and quantity required. We can produce any mix and will be delighted to provide a quotation.

### PAH Mix 1 - (WHO 6)

Benzo(b)fluoranthene	2 ng/µl
Benzo(k)fluoranthene	2 ng/µl
Benzo(g,h,i)perylene	2 ng/µl
Benzo(a)pyrene	2 ng/µl
Fluoranthene	10 ng/µl
Indeno(1,2,3,c,d)pyrene	2 ng/µl

in acetonitrile, cyclohexane		
L 20950100AL	10ml	GD
L 20950100CY	10ml	GD

in acetonitrile		
LS20950100AL	3 x 1ml	GD

### PAH Mix 3 - (WHO 6)

Benzo(b)fluoranthene	20 ng/µl
Benzo(k)fluoranthene	20 ng/µl
Benzo(g,h,i)perylene	20 ng/µl
Benzo(a)pyrene	20 ng/µl
Fluoranthene	50 ng/µl
Indeno(1,2,3,c,d)pyrene	40 ng/µl

in acetonitrile or cyclohexane		
L 20950300AL	10ml	HD
L 20950300CY	10ml	HD

The mix with 16 deuterated compounds is available in the Deuterated PAH Mix Section on the next pages.

### PAH Mix 8

Anthracene	50 ng/µl
Benzo(a)anthracene	10 ng/µl
Benzo(b)fluoranthene	10 ng/µl
Benzo(k)fluoranthene	10 ng/µl
Benzo(g,h,i)perylene	10 ng/µl
Benzo(a)pyrene	10 ng/µl
Chrysene	50 ng/µl
Dibenz(a,h)anthracene	10 ng/µl
7,12-Dimethylbenzo(a)anthracene	10 ng/µl
Fluoranthene	50 ng/µl
Fluorene	10 ng/µl
Indeno(1,2,3,c,d)pyrene	10 ng/µl
Perylene	10 ng/µl
Pyrene	50 ng/µl

in acetonitrile		
L 20950800AL	10ml	BHL

### PAH Mix 9 - (US EPA 16)

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene
Chrysene
Dibenz(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3,c,d)pyrene
Naphthalene
Phenanthrene
Pyrene

10 ng/µl each component in acetonitrile or cyclohexane (please specify solvent)		
L 20950900AL	10ml	BEK
L 20950900CY	10ml	BEK
LS20950900AL	5x1ml	BEK
LS20950900CY	5x1ml	BEK

100 ng/µl each component in acetonitrile, cyclohexane (please specify solvent)		
X 20950900AL	10ml	CGA
X 20950900CY	10ml	CGA
XA20950900AL	1ml	FK
XA20950900CY	1ml	FK

### PAH-Mix 9 deuterated

16 compounds as in EPA 610

Acenaphthene D10
Acenaphthylene D8
Anthracene D10
Benzo(a)anthracene D12
Benzo(b)fluoranthene D12
Benzo(k)fluoranthene D12
Benzo(g,h,i)perylene D12
Benzo(a)pyrene D12
Chrysene D12
Dibenz(a,h)anthracene D14
Fluoranthene D10
Fluorene D10
Indeno(1,2,3-c,d)pyrene D12
Naphthalene D8
Phenanthrene D10
Pyrene D10

10 ng/µl each component in cyclohexane		
L 20950902CY	10ml	EGA

100 ng/µl each component in cyclohexane		
XA20950902CY	1ml	EGA

### PAH Mix 13 - (US EPA 16)

Acenaphthene	100 ng/µl
Acenaphthylene	100 ng/µl
Anthracene	10 ng/µl
Benzo(a)anthracene	10 ng/µl
Benzo(b)fluoranthene	10 ng/µl
Benzo(k)fluoranthene	10 ng/µl
Benzo(g,h,i)perylene	10 ng/µl
Benzo(a)pyrene	10 ng/µl
Chrysene	10 ng/µl
Dibenz(a,h)anthracene	10 ng/µl
Fluoranthene	10 ng/µl
Fluorene	10 ng/µl
Indeno(1,2,3,c,d)pyrene	10 ng/µl
Naphthalene	100 ng/µl
Phenanthrene	10 ng/µl
Pyrene	10 ng/µl

in acetonitrile		10ml
L 20951300AL		CEA

### PAH Mix 14

Mix of PAHs for US EPA Method 610 plus 1-Methylnaphthalene and 2-Methylnaphthalene

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene
Chrysene
Dibenz(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3,c,d)pyrene
1-Methylnaphthalene
2-Methylnaphthalene
Naphthalene
Phenanthrene
Pyrene

10 ng/µl each component in acetonitrile or cyclohexane		
L 20951400AL	10ml	BHL
L 20951400CY	10ml	BHL
2000 ng/µl each component in acetone : benzene 1:1		
YA20951400AB	1ml	HD

**PAH Mix 18**

PAH for US EPA 610 + Perylene

Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(a)pyrene  
Chrysene  
Dibenz(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3,c,d)pyrene  
Naphthalene  
Phenanthrene  
Perylene  
Pyrene

10 ng/µl each component  
in acetonitrile 10ml  
L 20951800AL BGL

**PAH Mix 20 - (WHO 6)**

Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(a)pyrene  
Fluoranthene  
Indeno(1,2,3,c,d)pyrene

10 ng/µl each component  
in acetonitrile 10ml  
L 20952000AL LE

**PAH Mix 24 deuterated**

Acenaphthene D10 10 ng/µl  
Chrysene D12 10 ng/µl  
Naphthalene D8 10 ng/µl  
Perylene D12 10 ng/µl  
Phenanthrene D10 10 ng/µl

in hexane 1ml  
LA20952400HE FC

**PAH Mix 25 - (US EPA 16)**

Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(g,h,i)perylene  
Chrysene  
Dibenz(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Phenanthrene  
Pyrene

2000 ng/µl each component  
in acetone:benzene 50:50 1ml  
YA20952500AB KE

**PAH Mix 27 - (WHO 6)**

Benzo(b)fluoranthene 125 ng/µl  
Benzo(k)fluoranthene 25 ng/µl  
Benzo(g,h,i)perylene 125 ng/µl  
Benzo(a)pyrene 25 ng/µl  
Fluoranthene 200 ng/µl  
Indeno(1,2,3,c,d)pyrene 125 ng/µl

in acetonitrile 1ml  
LA20952700AL EF

**PAH Mix 31 deuterated**

Acenaphthene D10  
Chrysene D12  
Naphthalene D8  
Perylene D12  
Phenanthrene D10

1000 ng/µl each component  
in toluene 1ml  
YA20953100TO GK

**PAH Mix 39 - (US EPA 16)**

Acenaphthylene 100 ng/µl  
Acenaphthene 50 ng/µl  
Anthracene 10 ng/µl  
Benzo(a)anthracene 25 ng/µl  
Benzo(b)fluoranthene 25 ng/µl  
Benzo(k)fluoranthene 10 ng/µl  
Benzo(g,h,i)perylene 50 ng/µl  
Benzo(a)pyrene 25 ng/µl  
Chrysene 25 ng/µl  
Dibenz(a,h)anthracene 50 ng/µl  
Fluoranthene 50 ng/µl  
Fluorene 25 ng/µl  
Indeno(1,2,3,c,d)pyrene 100 ng/µl  
Naphthalene 100 ng/µl  
Phenanthrene 50 ng/µl  
Pyrene 50 ng/µl

in acetonitrile 10ml  
X 20953900AL CAA

**PAH Mix 45**

Mix of PAHs for US EPA Method 610 plus  
Benzo(e)pyrene & Perylene

Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(a)pyrene  
Benzo(e)pyrene  
Chrysene  
Dibenz(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3,c,d)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene

10 ng/µl each component  
in acetonitrile and cyclohexane  
(please specify solvent)  
L 20954500AL 10 ml CAA  
L 20954500CY 10 ml CAA

**PAH Mix 50 - (US EPA 16)**

Acenaphthene 1000 ng/µl  
Acenaphthylene 1000 ng/µl  
Anthracene 50 ng/µl  
Benzo(a)anthracene 1 ng/µl  
Benzo(a)pyrene 5 ng/µl  
Benzo(b)fluoranthene 1 ng/µl  
Benzo(g,h,i)perylene 5 ng/µl  
Benzo(k)fluoranthene 1 ng/µl  
Chrysene 50 ng/µl  
Dibenz(a,h)anthracene 10 ng/µl  
Fluoranthene 50 ng/µl  
Fluorene 100 ng/µl  
Indeno(1,2,3-cd)pyrene 10 ng/µl  
Naphthalene 1000 ng/µl  
Phenanthrene 50 ng/µl  
Pyrene 50 ng/µl

in acetonitrile 1ml  
XA05500100AL LE

**PAH Mix 61 - (US EPA 16)**

Acenaphthene 1000 ng/µl  
Acenaphthylene 2000 ng/µl  
Anthracene 100 ng/µl  
Benzo(a)anthracene 100 ng/µl  
Benzo(a)pyrene 100 ng/µl  
Benzo(b)fluoranthene 200 ng/µl  
Benzo(g,h,i)perylene 200 ng/µl  
Benzo(k)fluoranthene 100 ng/µl  
Chrysene 100 ng/µl  
Dibenz(a,h)anthracene 200 ng/µl  
Fluoranthene 200 ng/µl  
Fluorene 200 ng/µl  
Indeno(1,2,3-cd)pyrene 100 ng/µl  
Naphthalene 1000 ng/µl  
Phenanthrene 100 ng/µl  
Pyrene 100 ng/µl  
(16 compounds)

in acetone/methanol (1:1) 1ml  
XA06100100AM FK

**PAH Mix 63 - (US EPA 16)**

Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(g,h,i)perylene  
Chrysene  
Dibenz(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Phenanthrene  
Pyrene  
(16 compounds)

1000 ng/µl each component  
in toluene 1ml  
YA06100300TO BCK

**PAH Mix 64**

Acenaphthene  
 Acenaphthylene  
 Anthracene  
 Benzo(a)anthracene  
 Benzo(a)pyrene  
 Benzo(b)fluoranthene  
 Benzo(k)fluoranthene  
 Benzo(g,h,i)perylene  
 Carbazole  
 Chrysene  
 Dibenzo(a,h)anthracene  
 Fluoranthene  
 Fluorene  
 Indeno(1,2,3-cd)pyrene  
 Naphthalene  
 Phenanthrene  
 Pyrene  
 (17 compounds)

2000 ng/µl each component  
 in dichloromethane:benzene (1:1) 1ml  
 YA06100400BD BDK

**PAH Mix 68 - (US EPA 16)**

Acenaphthene  
 Acenaphthylene  
 Anthanthrene  
 Anthracene  
 Benzo(a)anthracene  
 Benzo(b)fluoranthene  
 Benzo(k)fluoranthene  
 Benzo(g,h,i)perylene  
 Benzo(a)pyrene  
 Benzo(e)pyrene  
 Chrysene  
 Cyclopenta(c,d)pyrene  
 Dibenz(a,h)anthracene  
 Fluoranthene  
 Fluorene  
 Indeno(1,2,3,c,d)pyrene  
 Naphthalene  
 Phenanthrene  
 Pyrene

100 ng/µl each component  
 in cyclohexane 1ml  
 XA20956800CY KL

**PAH Mix 170**

Benzo(a)anthracene  
 Benzo(b)fluoranthene  
 Benzo(j)fluoranthene  
 Benzo(k)fluoranthene  
 Benzo(g,h,i)perylene  
 Benzo(a)pyrene  
 Chrysene  
 Cyclopenta(c,d)pyrene  
 Dibenzo(a,h)anthracene  
 Dibenzo(a,e)pyrene  
 Dibenzo(a,h)pyrene  
 Dibenzo(a,i)pyrene  
 Dibenzo(a,l)pyrene  
 Indeno(1,2,3-c,d)pyrene  
 5-Methylchrysene

50 ng/µl each component  
 in acetonitrile 1ml  
 XA20950170AL KE

**PAH Mix 183**

Benzo(a)anthracene  
 Benzo(b)fluoranthene  
 Benzo(j)fluoranthene  
 Benzo(k)fluoranthene  
 Benzo(c)fluorene (3,4-Benzofluorene)  
 Benzo(g,h,i)perylene  
 Benzo(a)pyrene  
 Chrysene  
 Cyclopenta(c,d)pyrene  
 Dibenzo(a,h)anthracene  
 Dibenzo(a,e)pyrene  
 Dibenzo(a,h)pyrene  
 Dibenzo(a,i)pyrene  
 Dibenzo(a,l)pyrene  
 Indeno(1,2,3-c,d)pyrene  
 5-Methylchrysene  
 (17 compounds)

10 ng/µl each component  
 in cyclohexane  
 LA20950183CY 1ml FK  
 L 20950183CY 10ml CFA

**Deuterated PAH Mixes**

**PAH Mix 24 deuterated**

Acenaphthene D10  
 Chrysene D12  
 Naphthalene D8  
 Perylene D12  
 Phenanthrene D10

10 ng/µl each component  
 in hexane 1ml  
 LA20952400HE FC

**Internal Standards Mix 25**

Acenaphthene D10  
 Chrysene D12  
 Perylene D12  
 Phenanthrene D10

500 ng/µl each component  
 in acetone 1ml  
 XA05250600AC EF

**Internal Standards Mix 26**

Acenaphthene D10  
 Chrysene D12  
 1,4-Dichlorobenzene D4  
 Naphthalene D8  
 Perylene D12  
 Phenanthrene D10

4000 ng/µl each component  
 in dichloromethane 1ml  
 YA08272600DI HL

**PAH Mix 31**

Acenaphthene D10  
 Chrysene D12  
 Naphthalene D8  
 Perylene D12  
 Phenanthrene D10

1000 ng/µl each component  
 in toluene 1ml  
 YA20953100TO GK

**Internal Standards Mix 33**

Acenaphthene D10  
 Chrysene D12  
 1,4-Dichlorobenzene D4  
 Naphthalene D8  
 Perylene D12  
 Phenanthrene D10

2000 ng/µl each component  
 in toluene 1ml  
 YA08273300TO EA

2000 ng/µl each component  
 in toluene 10ml  
 Y 08273300TO DBA

**PAH-Mix 9 deuterated**  
 16 compounds as in EPA 610

Acenaphthene D10  
 Acenaphthylene D8  
 Anthracene D10  
 Benzo(a)anthracene D12  
 Benzo(b)fluoranthene D12  
 Benzo(k)fluoranthene D12  
 Benzo(g,h,i)perylene D12  
 Benzo(a)pyrene D12  
 Chrysene D12  
 Dibenz(a,h)anthracene D14  
 Fluoranthene D10  
 Fluorene D10  
 Indeno(1,2,3-c,d)pyrene D12  
 Naphthalene D8  
 Phenanthrene D10  
 Pyrene D10

10 ng/µl each component  
 in cyclohexane 10ml  
 L 20950902CY EGA

100 ng/µl each component  
 in cyclohexane 1ml  
 XA20950902CY EGA