NEW: Fractionation on DEXTech Instruments Saves Time and Money

One of the many strong points of our DEXTech series of instruments for the clean-up of PCDD/Fs and PCBs is the flexibility in fractionation possibilities. Just by pushing a button, customers can choose between different methods with different fraction options. Now, on multiple customer request, we have developed a fractionation option on the DEXTech instruments were all dioxins like-PCBs (DL-PCBs) are fractionated with the PCDD/Fs.

Sometimes labs are only interested in the results of the DL-PCBs and the PCDD/Fs. Conventional clean-up systems can only fractionate the non-ortho PCBs with the PCDD/Fs separated from the other mono-ortho PCBs This means the analytical lab has to do two analytical runs on the GC to determine the result for DL-PCBs and PCDD/Fs. With the new DEXTech clean-up fractionation method, the DL-PCBs now can be measured together with PCDD/Fs in one GC run. As GC-runtime is one of the major bottlenecks in the analysis of PCDD/Fs and PCBs having only one GC run for the determination of PCDD/Fs and DL-PCBs saves a lot of time and money. For detailed information about the recoveries, please see next page.

Alox PLUS Method	*Alox PURE Method*	NEW *DL - PCB + PCDD/F Method*
Fraction 1 (24 mL*): Mono-ortho-PCB + ndl-PCB + PBDE	**Fraction 1 (24 mL*):** Mono-ortho-PCB + ndl-PCB + non-ortho-PCB	**Fraction 1 (24 mL*):** + ndl-PCB
Fraction 2 (10 mL):** Non-ortho-PCB + PCDD/F + PCNs	**Fraction 2 (10 mL**):** PCDD/F	**Fraction 2 (10 mL**):** DL-PCB+PCDD/F
Total process time: 65 min **Total process time SMART:** 45 min	**Total process time:** 72 min **Total process time SMART:** 52 min	**Total process time:** 65 min **Total process time SMART:** 45 min
Also available as DCM Free Method!	*UNIQUE FRACTIONATION: matching best the analytical setup in many laboratories*	

* Dichloromethane / n-hexane ** Toluene

For further information, please contact us using the details below.

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	1018-4 Standard carbon column 4g Olive oil	1018-5 New carbon column 4g Olive oil	1018-6 New carbon column 4g Olive oil	1018-2 New carbon column 4g Fish oil	1018-3 New carbon column 4g Fish oil
13C- recoveries [%]	F2	F2	F2	F2	F2
13C-2,3,7,8-TCDF	72	75	73	73	76
13C-1,2,3,7,8-PeCDF	72	76	74	83	83
13C-2,3,4,7,8-PeCDF	70	75	73	89	88
13C-1,2,3,4,7,8-HxCDF	87	77	90	88	85
13C-1,2,3,6,7,8-HxCDF	91	77	91	94	91
13C-2,3,4,6,7,8-HxCDF	90	79	89	93	88
13C-1,2,3,7,8,9-HxCDF	94	85	94	98	94
13C-1,2,3,4,6,7,8-HpCDF	98	87	97	98	94
13C-1,2,3,4,7,8,9-HpCDF	92	82	90	96	92
13C-1,2,3,4,6,7,8,9-OCDF	94	86	88	92	85
13C-2,3,7,8-TCDD	70	73	71	82	75
13C-1,2,3,7,8-PeCDD	78	76	71	82	89
13C-1,2,3,4,7,8 -HxCDD	104	94	109	105	103
13C-1,2,3,6,7,8-HxCDD	79	74	82	85	79
13C-1,2,3,7,8,9-HxCDD	101	88	101	99	94
13C-1,2,3,4,6,7,8-HpCDD	90	87	91	95	90
13C-1,2,3,4,6,7,8,9-OCDD	83	77	80	86	79
PCB-#81L	81	77	71	81	76
PCB-#77L	81	75	70	82	80
PCB-#126L	107	90	83	115	114
PCB-#169L	109	93	81	127	121

	F1	F2	F1	F2	F1	F2	F1	F2	F1	F2
13C- recoveries [%]										
PCB-#28L	86	3	26	62	20	64	12	80	31	62
PCB-#52L	70	1	95	1	91	1	87	1	92	1
PCB-#101L	88	1	85	2	84	2	79	1	83	1
PCB-#153L	92	1	87	2	85	2	85	1	82	1
PCB-#138L	97	1	92	3	89	3	95	3	99	3
PCB-#180L	94	1	83	4	81	3	82	2	84	2
PCB-#81L	0	91	0	90	0	89	0	95	0	97
PCB-#77L	0	86	0	86	0	84	0	93	0	94
PCB-#126L	0	98	0	96	0	93	0	99	0	99
PCB-#169L	1	98	2	101	2	94	0	92	2	91
PCB-#123L	80	8	0	84	0	82	0	82	0	81
PCB-#118L	91	10	0	82	0	81	0	88	0	86
PCB-#114L	86	4	3	79	2	77	1	81	4	76
PCB-#105L	80	9	0	80	0	76	0	84	0	83
PCB-#167L	79	14	0	87	0	84	0	86	0	85
PCB-#156L	83	10	0	85	0	80	0	83	0	83
PCB-#157L	80	12	2	86	2	81	1	83	1	83
PCB-#189L	84	12	1	84	1	79	1	87	1	84

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