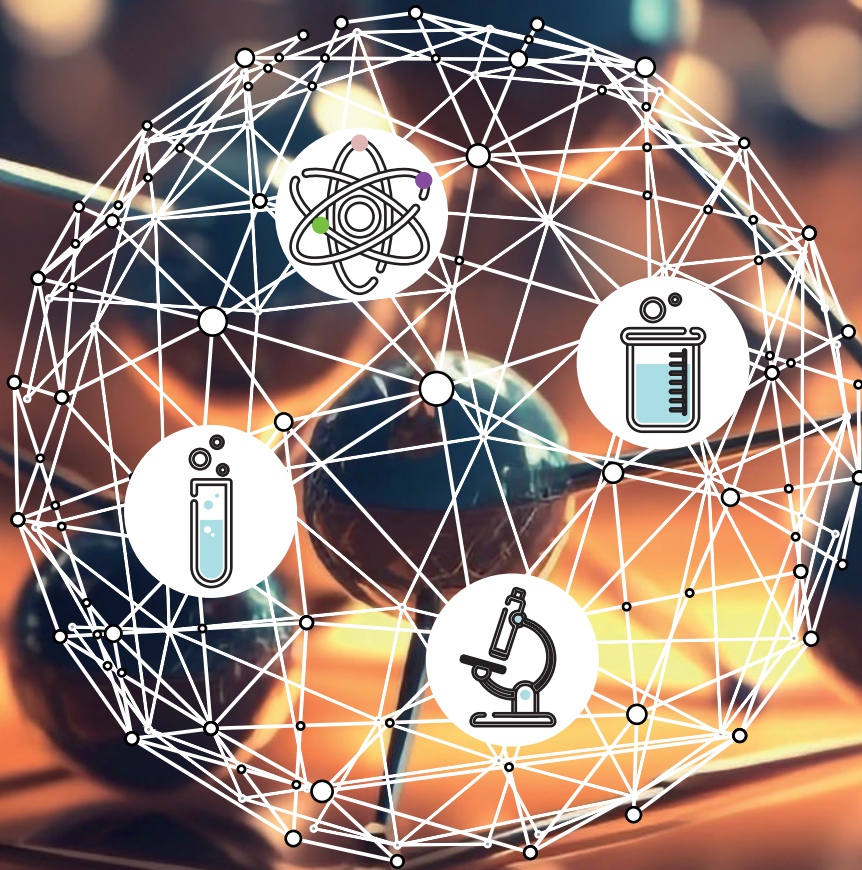


# 인증표준물질

Certified Reference Materials





## 중금속분석을 위한 시료전처리장비와 인증표준물질등 소모품 전문기업!



(주) 오디랩은 2008년 8월에 설립된 회사로 중금속분석에 사용되는 흑연블럭 산 분해장비인 에코프리 I, II, III 시리즈와 산 세척장치, 고순도 산 제조 장치, 유리분주기, ICP/ICP MS 소모품, 인증표준물질(CRM), 숙련도 평가물질 (PT) 등 을 제조, 수입판매하고 있습니다.

(주) 오디랩에서 제조 판매하는 흑연블럭 산 분해장비는 열선 가열판이나 마이크로웨이브의 단점을 보완한 제품으로 국내를 비롯하여 세계 7개국에 특허를 획득하였고 현재 해외로도 수출 중 에 있습니다.

또한 실험실에서 분석 데이터의 신뢰성확보를 위한 인증표준물질(CRM)과 표준물질(RM), 국제숙련도 물질을 전세계에서 수입하여 판매하고 있습니다. 인증표준물질은 고객이 찾으시는 제품을 탐색하여 드리고 있으며, 가장 근접한 제품으로 추천드리고 있습니다.

특히 유럽환경규제인 RoHS에 대응한 IEC62321시험법에 나오는 인증표준 물질을 국내 시험평가기관이나 국가기관에 공급하고 있으며, 환경부에서 실시하는 정도관리에 대응하여 LGC사에서 제공하는 환경관련 숙련도 물질을 공급하고 있습니다.

**저희 (주) 오디랩은 화학실험실의 동반자로서  
분석의 재현성과 정확성, 신뢰성 확보를 위해  
언제나 고객의 노력과 함께 하겠습니다**



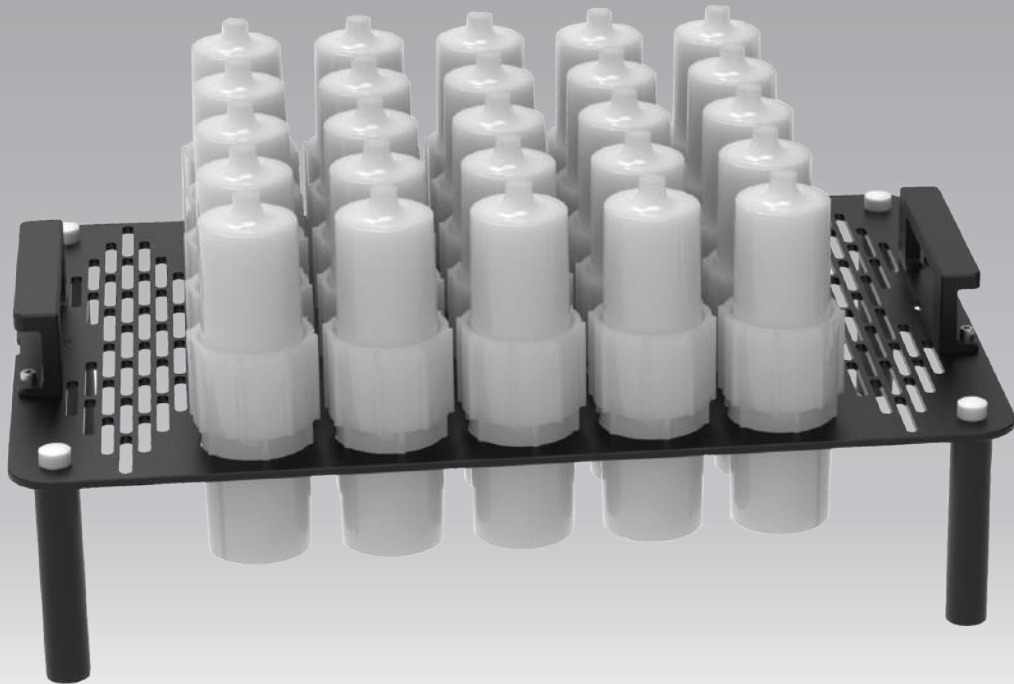
**ODLAB**

자동 산분해장비

**ADS25**



견적문의



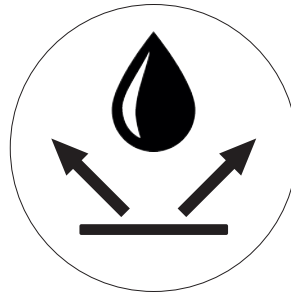
#### 경량화 & 벤틸레이션

경량화 & 벤틸레이션 -



#### 산순환 포집분해용기

산순환 포집분해용기 -



#### 오염방지&내구성

오염방지&내구성 -



#### 앱 연동 조작

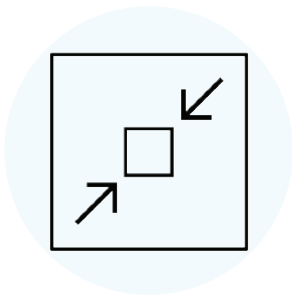
앱 연동 조작 -

이동 및 보관을 위해 플레이트를 타공디자인으로 경량화를 하였습니다 또한 타공을 통하여 원활하게 열기의 순환이 이루어 집니다.

좌우에 있는 리프트 장치로 산 순환 포집분해 용기 내부의 산을 가열 / 냉각 시켜서 사이펀 현상에 의해 리사이클 시켜 시료를 분해할 수 있도록 디자인 하였습니다.

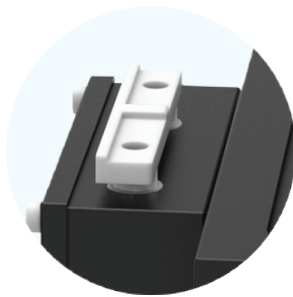
SUS 재질사용 및 테프론 특수코팅을 하여 표면이 쉽게 오염되지 않도록 제작하였습니다. 또한 상부 가열부와 하부 전자제어부는 서로 격리, 밀봉되어 열 또는 산 증기로 인하여 전자제어장치가 손상되지않도록 되어있습니다.

20 Step 으로 가열 / 냉각 으로 분해조건을 프로그램화 할 수 있으며, 앱을 사용하여 조절가능합니다.



#### 컴팩트한 사이즈

컴팩트한 사이즈 -



#### 오토메틱 리프팅

오토메틱 리프팅 -

메뉴얼 및 프로그래밍 기능으로 반복적인 가열 / 냉각을 할 수 있도록 리프팅 기능이 있습니다.



#### 균일한 온도

균일한 온도 -

흑연 소재를 사용하여 균일한 온도를 제공하고 ( $\pm 1^{\circ}\text{C}$  온도편차를 갖는다) 제어는  $0.2^{\circ}\text{C}$  로 제어된다.



#### 수동 승강버튼

수동 승강버튼 -

리프트 장치를 수동버튼을 사용하여 상부 랙(Rack)을 상하로 움직여 사용자가 원할 시 용기의 상태를 언제든지 확인 할 수 있습니다.



**GLASS EXPANSION**  
Quality By Design

# ICP-OES / ICP-MS

모든 메이커 (애질런트, 씨모, 퍼킨..etc) 전제품



견적문의

# Toxin Dioxin Furan Pollutants

본 자료는 시기에 따라 제품 단종 및 수치의 변경이  
있을 수 있으니 본사로 문의 부탁드립니다.

## Toxin

Code	Product	Unit				
<b>ERM-AC699</b>	<b>ZEARALENONE CALIBRANT</b>	3 g				
	<p>The material is a solution of zearalenone in acetonitrile. It is supplied in amber glass ampoules filled and sealed under nitrogen in amounts of 4 mL.</p> <p>Certified Value</p> <table> <tr> <td>Compound</td> <td>Certified value [<math>\mu\text{g}/\text{mL}</math>]</td> </tr> <tr> <td>Zearalenone .....</td> <td>9.95</td> </tr> </table>		Compound	Certified value [ $\mu\text{g}/\text{mL}$ ]	Zearalenone .....	9.95
Compound	Certified value [ $\mu\text{g}/\text{mL}$ ]					
Zearalenone .....	9.95					
<b>ERM-AC057</b>	<b>AFLATOXIN B1 IN ACETONITRILE</b>	3.1 g				
	<p>The material is provided in amber glass ampoules filled with 4 mL. The material was prepared from pure acetonitrile and crystalline aflatoxin B1.</p> <p>Mass concentration at 20 °C</p> <table> <tr> <td>Compound</td> <td>Indicative value [<math>\mu\text{g}/\text{mL}</math>]</td> </tr> <tr> <td>Aflatoxin B1 .....</td> <td>2.97</td> </tr> </table>		Compound	Indicative value [ $\mu\text{g}/\text{mL}$ ]	Aflatoxin B1 .....	2.97
Compound	Indicative value [ $\mu\text{g}/\text{mL}$ ]					
Aflatoxin B1 .....	2.97					
<b>ERM-AC058</b>	<b>AFLATOXIN B2 IN ACETONITRILE</b>	3.1 g				
	<p>The material is provided in amber glass ampoules filled with 4 mL. The material was prepared from pure acetonitrile and crystalline aflatoxin B2.</p> <p>Mass concentration at 20 °C</p> <table> <tr> <td>Compound</td> <td>Indicative value [<math>\mu\text{g}/\text{mL}</math>]</td> </tr> <tr> <td>Aflatoxin B2 .....</td> <td>2.98</td> </tr> </table>		Compound	Indicative value [ $\mu\text{g}/\text{mL}$ ]	Aflatoxin B2 .....	2.98
Compound	Indicative value [ $\mu\text{g}/\text{mL}$ ]					
Aflatoxin B2 .....	2.98					
<b>ERM-AC059</b>	<b>AFLATOXIN G1 IN ACETONITRILE</b>	3.1 g				
	<p>The material is provided in amber glass ampoules filled with 4 mL. The material was prepared from pure acetonitrile and crystalline aflatoxin B2.</p> <p>Mass fraction</p> <table> <tr> <td>Compound</td> <td>Certified value [<math>\mu\text{g}/\text{g}</math>]</td> </tr> <tr> <td>Aflatoxin G1 .....</td> <td>3.78</td> </tr> </table>		Compound	Certified value [ $\mu\text{g}/\text{g}$ ]	Aflatoxin G1 .....	3.78
Compound	Certified value [ $\mu\text{g}/\text{g}$ ]					
Aflatoxin G1 .....	3.78					
<b>ERM-AC060</b>	<b>AFLATOXIN G2 IN ACETONITRILE</b>	3.1 g				
	<p>The material is provided in amber glass ampoules filled with 4 mL. The material was prepared from pure acetonitrile and crystalline aflatoxin B2.</p> <p>Mass concentration at 20 °C</p> <table> <tr> <td>Compound</td> <td>Indicative value [<math>\mu\text{g}/\text{g}</math>]</td> </tr> <tr> <td>Aflatoxin G2 .....</td> <td>3.80</td> </tr> </table>		Compound	Indicative value [ $\mu\text{g}/\text{g}$ ]	Aflatoxin G2 .....	3.80
Compound	Indicative value [ $\mu\text{g}/\text{g}$ ]					
Aflatoxin G2 .....	3.80					
<b>IRMM-315</b>	<b>4-DEOXYNIVALENOL in acetonitrile</b>	3.1 g				
	<p>The material is provided in amber glass ampoules filled with 4 mL. The material was prepared from pure acetonitrile and crystalline 4-deoxynivalenol.</p> <p>Mass concentration at 20 °C</p> <table> <tr> <td>Compound</td> <td>Indicative value [<math>\mu\text{g}/\text{g}</math>]</td> </tr> </table>		Compound	Indicative value [ $\mu\text{g}/\text{g}$ ]		
Compound	Indicative value [ $\mu\text{g}/\text{g}$ ]					



# Toxin

Code	Product	Unit				
	4 - Deoxynivalenol content .....	25.1				
<b>IRMM – 316</b>	<b>NIVALENOL in acetonitrile</b>	3.1 g				
	<p>The material is provided in amber glass ampoules filled with 4 mL.                      The material was prepared from pure acetonitrile and crystalline nivalenol monohydrate.</p> <p>Mass concentration at 20 °C</p> <table> <tr> <td>Element</td> <td>Indicative value [µg/mL]</td> </tr> <tr> <td>Nivalenol content .....</td> <td>18.8</td> </tr> </table>		Element	Indicative value [µg/mL]	Nivalenol content .....	18.8
Element	Indicative value [µg/mL]					
Nivalenol content .....	18.8					
<b>ERM-AE649</b>	<b>THALLIUM (NATURAL) SPIKE, NITRATE SOLUTION</b>	5 g				
	<p>The spike isotopic reference material ERM-AE649 is supplied with a certified amount content of <sup>205</sup>Tl and certified isotopic composition of Tl.</p> <p>Certified value</p> <table> <tr> <td>mol <sup>205</sup>Tl · g<sup>-1</sup> (solution) .....</td> <td>8.368 8 · 10<sup>-7</sup></td> </tr> <tr> <td>n(<sup>203</sup>Tl)/n(<sup>205</sup>Tl) .....</td> <td>0.41891</td> </tr> </table>		mol <sup>205</sup> Tl · g <sup>-1</sup> (solution) .....	8.368 8 · 10 <sup>-7</sup>	n( <sup>203</sup> Tl)/n( <sup>205</sup> Tl) .....	0.41891
mol <sup>205</sup> Tl · g <sup>-1</sup> (solution) .....	8.368 8 · 10 <sup>-7</sup>					
n( <sup>203</sup> Tl)/n( <sup>205</sup> Tl) .....	0.41891					

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-047</b>	<b>BENZO (b) FLUORANTHENE (purity)</b> The material is available in a brown glass bottle Certified Value Benzo[b]fluoranthene .....	0.1 g   Certified value [g/g] 0.9974
<b>BCR-048R</b>	<b>BENZO (k) FLUORANTHENE (purity)</b> The material is available in a brown glass bottle Certified Value Benzo[k]fluoranthene .....	0.1 g   Certified value [g/g] 0.997
<b>BCR-049</b>	<b>BENZO (j) FLUORANTHENE (purity)</b> The material is available in a brown glass bottle Certified Value Benzo[j]fluoranthene .....	0.1 g   Certified value [g/g] 0.997
<b>BCR-050</b>	<b>BENZO (e) PYRENE (purity)</b> The material is available in a brown glass bottle Certified Value Benzo[e]pyrene .....	0.1 g   Certified value [g/g] 0.991
<b>BCR-052</b>	<b>BENZO (g h i) PERYLENE (purity)</b> The material is available in a brown glass bottle Certified Value Benzo[ghi]perylene .....	0.1 g   Certified value [g/g] 0.9923
<b>BCR-077R</b>	<b>1-METHYLCHRYSENE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. The material corresponds to a 10 mg fraction of the original BCR-77 (100 mg units) repackaged under clean and inert gas conditions. Certified Value 1-Methylchrysene .....	0.01 g     Certified value [g/g] 0.991

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-078R</b>	<b>2-METHYLCHRYSENE (purity)</b>  The material is available in a brown glass bottle, containing 10 mg. The material corresponds to a 10 mg fraction of the original BCR-78 (100 mg units) repackaged under clean and inert gas conditions.  Certified Value 2-Methylchrysene .....	0.01 g       Certified value [g/g] 0.993
<b>BCR-079R</b>	<b>3-METHYLCHRYSENE (purity)</b>  The material is available in a brown glass bottle, containing 10 mg. The material corresponds to a 10 mg fraction of the original BCR-79 (100 mg units) repackaged under clean and inert gas conditions.  Certified Value 3-Methylchrysene .....	0.01 g       Certified value [g/g] 0.993
<b>BCR-080R</b>	<b>4-METHYLCHRYSENE (purity)</b>  The material is available in a brown glass bottle, containing 10 mg. The material corresponds to a 10 mg fraction of the original BCR-80 (100 mg units) repackaged under clean and inert gas conditions.  Certified Value 4-Methylchrysene .....	0.01 g       Certified value [g/g] 0.994
<b>BCR-091</b>	<b>ANTHANTHRENE (purity)</b>  The material is available in a brown glass bottle, containing 100 mg  Certified Value Anthanthrene .....	0.1 g       Certified value [g/g] 0.996
<b>BCR-092</b>	<b>10-AZABENZO (a) PYRENE (purity)</b>  The material is available in a brown glass bottle, containing 100 mg.  Certified Value 10-Azabenzo[a]pyrene .....	0.1 g       Certified value [g/g] 0.996
<b>BCR-093R</b>	<b>1-METHYLBENZ (a) ANTHRACENE (purity)</b>  The material is available in a brown glass bottle, containing 10 mg. The material corresponds to a 10 mg fraction of the original BCR-93 (100 mg units) repackaged under clean and inert gas conditions.  Certified Value 1-Methylbenz[a]anthracene .....	0.01 g       Certified value [g/g] 0.996

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-094</b>	<b>DIBENZ (a.c) ANTHRACENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value ..... Certified value [g/g] Dibenz[a,c]anthracene ..... 0.996	0.1 g
<b>BCR-095</b>	<b>DIBENZ (a.j) ANTHRACENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value ..... Certified value [g/g] Dibenz[a,j]anthracene ..... 0.9978	0.1 g
<b>BCR-096</b>	<b>DIBENZO[a,l]PYRENE</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value ..... Certified value [g/g] Benzo[j]fluoranthene ..... 0.997	0.1 g
<b>BCR-097</b>	<b>BENZO (a) FLUORANTHENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value ..... Certified value [g/g] Benzo[a]fluoranthene ..... 0.996	0.1 g
<b>BCR-133</b>	<b>DIBENZO (a.e) PYRENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value ..... Certified value [g/g] Dibenzo[a,e]pyrene ..... 0.996	0.1 g
<b>BCR-134</b>	<b>BENZO (c) PHENANTHRENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value ..... Certified value [g/g] Benzo[c]phenanthrene ..... 0.9968	0.1 g
<b>BCR-136R</b>	<b>BENZO (b) NAPHTHO (2,3-d) THIOPHENE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value ..... Certified value [g/g] Benzo[b]naphtho[2,3-d]thiophene ..... 0.994	0.01 g



## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-137R</b>	<b>BENZO (b) NAPHTHO (1,2-d) THIOPHENE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value Benzo[b]naphtho[1,2-d]thiophene ..... 0.9966	0.01 g
<b>BCR-138</b>	<b>DIBENZO (a,h) ANTHRACENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Dibenzo[a,h]anthracene ..... 0.990	0.1 g
<b>BCR-139</b>	<b>BENZO (g h i) FLUORANTHENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Benzo[ghi]fluoranthene ..... 0.995	0.1 g
<b>BCR-140</b>	<b>BENZO (c) CHRYSENE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Benzo[c]chrysene ..... 0.996	0.1 g
<b>BCR-153R</b>	<b>DIBENZ (a,h) ACRIDINE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value Dibenz[a,h]acridine ..... 0.9992	0.01 g
<b>BCR-154</b>	<b>DIBENZ (a,j) ACRIDINE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Dibenz[a,j]acridine ..... 0.9990	0.02 g
<b>BCR-155</b>	<b>DIBENZ (a,c) ACRIDINE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Dibenz[a,c]acridine ..... 0.9991	0.1 g

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-156R</b>	<b>DIBENZ (c,h) ACRIDINE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value Dibenz[c,h]acridine .....	0.01 g   Certified value [g/g] 0.9936
<b>BCR-157</b>	<b>BENZ (a) ACRIDINE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Benz[a]acridine .....	0.1 g   Certified value [g/g] 0.9982
<b>BCR-158</b>	<b>BENZ (c) ACRIDINE (purity)</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Benz[c]acridine .....	0.1 g   Certified value [g/g] 0.9987
<b>BCR-159</b>	<b>DIBENZO[a,h]PYRENE</b> The material is available in a brown glass bottle, containing 100 mg. Certified Value Dibenzo[a,h]pyrene .....	0.1 g   Certified value [g/g] 0.993
<b>BCR-160R</b>	<b>FLUORANTHENE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value Fluoranthene .....	0.01 g   Certified value [g/g] 0.996
<b>BCR-168</b>	<b>PICENE (purity)</b> The material is available in a thick-walled amber glass vial containing 10 mg. Certified Value Picene .....	0.01 g   Certified value [g/g] 0.998
<b>BCR-177R</b>	<b>PYRENE (purity)</b> The material is available in brown glass bottles containing 10 mg. The CRM corresponds to the original CRM BCR-177 (100 mg), which was re-packaged under clean and inert gas conditions. Certified Value Pyrene .....	0.01 g    Certified value [g/g] 0.9980

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-265</b>	<b>DIBENZO[a,e]FLUORANTHENE</b> The material is available in an amber glass vial containing 20 mg. Certified Value Dibenzo[a,e]fluoranthene .....	0.02 g Certified value [g/g] 0.9985
<b>BCR-266</b>	<b>7H-DIBENZO (c.g) CARBAZOLE (purity)</b> The material is available in an amber glass vial containing 20 mg. Certified Value 7H-Dibenzo[c,g]carbazole .....	0.02 g Certified value [g/g] 0.9971
<b>BCR-267</b>	<b>INDENO (1,2,3-cd) FLUORANTHENE (purity)</b> The material is available in an amber glass vial containing 20 mg. Certified Value Indeno[1,2,3-cd]fluoranthene .....	0.02 g Certified value [g/g] 0.9986
<b>BCR-269</b>	<b>CHRYSENE (purity)</b> The material is available in an amber glass vial containing 20 mg. Certified Value Chrysene .....	0.02 g Certified value [g/g] 0.9928
<b>BCR-270</b>	<b>TRIPHENYLENE (purity)</b> The material is available in an amber glass vial containing 20 mg. Certified Value Triphenylene .....	0.02 g Certified value [g/g] 0.9984
<b>BCR-271</b>	<b>BENZ (a) ANTHRACENE (purity)</b> The material is available in an amber glass vial containing 20 mg. Certified Value Benz[a]anthracene .....	0.02 g Certified value [g/g] 0.9984
<b>BCR-272</b>	<b>CORONENE (purity)</b> The material is available in an amber glass vial containing 20 mg. Certified Value Coronene .....	0.02 g Certified value [g/g] 0.9989

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>ERM-AC051</b>	<b>BENZO[A]PYRENE</b> The sample consists of 25 mg of benzo[a]pyrene in a brown glass sealed with a screw cap. Certified Value Benzo[a]pyrene .....	0.025 g Certified value [g/g] 0.979
<b>ERM-AC053</b>	<b>INDENO[1,2,3-C,D]PYRENE</b> The sample consists of 25 mg of indeno[1,2,3-cd]pyrene in a brown glass vial sealed with a screw cap. Certified Value Indeno[1,2,3-cd]pyrene .....	0.025 g Certified value [g/g] 0.996
<b>ERM-AC082</b>	<b>6-METHYLCHRYSENE</b> The sample consists of 25 mg of 6-methylchrysene in a brown glass vial sealed with a screw cap. Certified Value 6-Methylchrysene .....	0.025 g Certified value [g/g] 0.983
<b>BCR-305</b>	<b>1-NITROPYRENE (purity)</b> The material is available in amber glass vials containing 10 mg. Certified Value 1-Nitropyrene .....	0.01 g Certified value [g/g] 0.9976
<b>BCR-306</b>	<b>1-NITRONAPHTHALENE</b> The material is available in amber glass vials containing 10 mg. Certified Value 1-Nitronaphthalene .....	0.01 g Certified value [g/g] 0.9969
<b>BCR-307</b>	<b>2-NITRONAPHTHALENE</b> The material is available in amber glass vials containing 10 mg. Certified Value 2-Nitronaphthalene .....	0.01 g Certified value [g/g] 0.9977
<b>BCR-308</b>	<b>9-NITROANTHRACENE (purity)</b> The material is available in amber glass vials containing 10 mg. Certified Value 9-Nitroanthracene .....	0.01 g Certified value [g/g] 0.9975



## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-309</b>	<b>6-NITROCHRYSENE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value 6- Nitrochrysene .....	0.01 g Certified value [g/g] 0.989
<b>BCR-310</b>	<b>3-NITROFLUORANTHENE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value 3-Nitrofluoranthene .....	0.01 g Certified value [g/g] 0.9968
<b>BCR-311</b>	<b>6-NITROBENZO (a) PYRENE (purity)</b> The material is available in a brown glass bottle, containing 10 mg. Certified Value 6-Nitrobenzo[a]pyrene .....	0.01 g Certified value [g/g] 0.9978
<b>BCR-312</b>	<b>2-NITRO-7-METHOXYNAPHTHO (2,1-b) FURAN (purity)</b> The material is available in amber glass vials containing 10 mg. Certified Value 2-Nitro-7-methoxynaphtho[2,1-b]furan .....	0.01 g Certified value [g/g] 0.9984
<b>BCR-337</b>	<b>DIBENZO (b,d) FURAN (purity)</b> The material is available in amber glass vials containing 10 mg. Certified Value Dibenzo[b,d]furan .....	0.01 g Certified value [g/g] 0.987
<b>BCR-339</b>	<b>BENZO (c,d) PYREN-6-ONE (purity)</b> The material is available in amber glass vials containing 10 mg. Certified Value 6H-Benzo[c,d]pyren-6-one .....	0.01 g Certified value [g/g] 0.988
<b>BCR-340</b>	<b>BENZO (b) NAPHTHO (1,2-d) FURAN (purity)</b> The material is available in amber glass vials containing 10 mg. Certified Value Benzo[b]naphtho[1,2-d]furan .....	0.01 g Certified value [g/g] 0.997

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-341</b>	<b>BENZO[b]NAPHTHO[2,1-d]FURAN</b>	0.01 g
	The material is available in amber glass vials containing 10 mg.	
	Certified Value	Certified value [g/g]
	Benzo[b]naphtho[2,1-d]furan ..... 0.996	
<b>BCR-342</b>	<b>BENZO[a]FLUORENONE</b>	0.01 g
	The material is available in amber glass vials containing 10 mg.	
	Certified Value	Certified value [g/g]
	Benzo[a]fluorenone ..... 0.9979	
<b>BCR-289</b>	<b>2,4'-DICHLOROBIPHENYL (IUPAC N.8) (purity)</b>	0.025 g
	The material is available in an amber glass vial containing 25 mg.	
	Certified Value	Certified value [g/g]
	2,4'-Dichlorobiphenyl ..... 0.9963	
<b>BCR-290</b>	<b>2,3,3'-TRICHLOROBIPHENYL (IUPAC N.20) (purity)</b>	0.025 g
	The material is available in an amber glass vial containing 25 mg.	
	Certified Value	Certified value [g/g]
	2,3,3'-Trichlorobiphenyl ..... 0.9985	
<b>BCR-291</b>	<b>2,4,4'-TRICHLOROBIPHENYL (IUPAC N. 28) (purity)</b>	0.025 g
	The material is available in an amber glass vial containing 25 mg.	
	Certified Value	Certified value [g/g]
	2,4,4'-Trichlorobiphenyl ..... 0.9979	
<b>BCR-293</b>	<b>2,2',5,5'-TETRACHLOROBIPHENYL (IUPAC N. 52) (purity)</b>	0.025 g
	The material is available in an amber glass vial containing 25 mg.	
	Certified Value	Certified value [g/g]
	2,2',5,5'-Tetrachlorobiphenyl ..... 0.9959	
<b>BCR-296</b>	<b>2,2',3,4,4',5'-HEXACHLOROBIPHENYL (IUPAC N. 138) (purity)</b>	0.025 g
	The material is available in an amber glass vial containing 25 mg.	
	Certified Value	Certified value [g/g]
	2,2',3,4,4',5'-Hexachlorobiphenyl ..... 0.9992	

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>BCR-297</b>	2,2',4,4',5,5'-HEXACHLOROBIPHENYL (IUPAC N. 153) (purity) The material is available in an amber glass vial containing 25 mg. Certified Value 2,2',4,4',5,5'-Hexachlorobiphenyl .....	0.025 g Certified value [g/g] 0.9994
<b>BCR-298</b>	2,2',3,4,4',5,5'-HEPTACHLOROBIPHENYL (IUPAC N. 180) (purity) The material is available in an amber glass vial containing 25 mg. Certified Value 2,2',3,4,4',5,5'-Heptachlorobiphenyl .....	0.025 g Certified value [g/g] 0.9957
<b>BCR-365</b>	PCB STANDARD SOLUTION The reference material consists of 2 cm <sup>3</sup> of a solution of 10 PCBs in iso-octane sealed in a dark glass ampoule. Certified Value PCB congener number                      Indicative value [µg/cm <sup>3</sup> ] at 25 °C 8 ..... 7.8 20 ..... 10.5 28 ..... 17.1 35 ..... 9.8 52 ..... 10.2 101 ..... 9.9 118 ..... 10.3 138 ..... 5.9 153 ..... 9.8 180 ..... 10.4	2.75 g
<b>BCR-614 S0</b>	SOLUTION OF PCDD/Fs IN N-NONANE The solution of natural and labelled PCDD and PCDF congeners in n-nonane is presented in brown glass ampoules sealed under helium gas. POLYCHLORODIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORODIBENZOFURANS (PCDFs) IN N-NONANE Certified Value Congener                      Certified value [µg/kg]                      Congener                      Certified value [µg/kg] 2,3,7,8-T <sub>4</sub> CDD ..... 0.137                      1,2,3,4,7,8-HCDF ..... 0.700 1,2,3,7,8-P <sub>5</sub> CDD ..... 0.698                      1,2,3,6,7,8-HCDF ..... 0.698 1,2,3,4,7,8-HCDD ..... 0.688                      1,2,3,7,8,9-HCDF ..... 0.699 1,2,3,6,7,8-HCDD ..... 0.696                      2,3,4,6,7,8-HCDF ..... 0.694 1,2,3,7,8,9-HCDD ..... 0.705                      1,2,3,4,6,7,8-HCDF ..... 1.396 1,2,3,4,6,7,8-HCDD ..... 1.400                      1,2,3,4,7,8,9-HCDF ..... 1.394 1,2,3,4,6,7,8,9-O <sub>8</sub> CDD ..... 1.396                      1,2,3,4,6,7,8,9-O <sub>8</sub> CDF ..... 1.397 2,3,7,8-T <sub>4</sub> CDF ..... 0.1397 <sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDD ..... 13.95 1,2,3,7,8-P <sub>5</sub> CDF ..... 0.707 <sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDD ..... 13.9 2,3,4,7,8-P <sub>5</sub> CDF ..... 0.698 <sup>13</sup> C-1,2,3,4,7,8-HCDD ..... 13.98	0.8 g

## Dioxin / Furan / Pollutants std

Code	Product	Unit
	<sup>13</sup> C-1,2,3,6,7,8-HCDD ..... 13.94	<sup>13</sup> C-1,2,3,4,7,8-HCDF ..... 13.90
	<sup>13</sup> C-1,2,3,7,8,9-HCDD ..... 13.95	<sup>13</sup> C-1,2,3,6,7,8-HCDF ..... 13.93
	<sup>13</sup> C-1,2,3,4,6,7,8-HCDD ..... 27.9	<sup>13</sup> C-1,2,3,7,8,9-HCDF ..... 13.93
	<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDD ..... 27.87	<sup>13</sup> C-2,3,4,6,7,8-HCDF ..... 13.931
	<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDF ..... 13.96	<sup>13</sup> C-1,2,3,4,6,7,8-HCDF ..... 27.92
	<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDF ..... 13.94	<sup>13</sup> C-1,2,3,4,7,8,9-HCDF ..... 27.87
	<sup>13</sup> C-2,3,4,7,8-P <sub>5</sub> CDF ..... 13.95	<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDF ..... 27.88
		<sup>13</sup> C-1,2,3,4-T <sub>4</sub> CDD ..... 13.94

### BCR-614 S1

#### SOLUTION OF PCDD/Fs IN N-NONANE

0.8 g

The solution of natural and labelled PCDD and PCDF congeners in n-nonane is presented in brown glass ampoules sealed under helium gas.

#### POLYCHLORODIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORODIBENZOFURANS (PCDFs) IN N-NONANE

##### Certified Value

Congener	Certified value [[µg/kg]	Congener	Certified value [[µg/kg]
2,3,7,8-T <sub>4</sub> CDD .....	0.273	<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDD .....	13.95
1,2,3,7,8-P <sub>5</sub> CDD .....	1.394	<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDD .....	13.9
1,2,3,4,7,8-HCDD .....	1.37	<sup>13</sup> C-1,2,3,4,7,8-HCDD .....	13.98
1,2,3,6,7,8-HCDD .....	1.391	<sup>13</sup> C-1,2,3,6,7,8-HCDD .....	13.94
1,2,3,7,8,9-HCDD .....	1.408	<sup>13</sup> C-1,2,3,7,8,9-HCDD .....	13.95
1,2,3,4,6,7,8-HCDD .....	2.80	<sup>13</sup> C-1,2,3,4,6,7,8-HCDD .....	27.9
1,2,3,4,6,7,8,9-O <sub>8</sub> CDD .....	2.787	<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDD .....	27.87
2,3,7,8-T <sub>4</sub> CDF .....	0.2790	<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDF .....	13.96
1,2,3,7,8-P <sub>5</sub> CDF .....	1.412	<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDF .....	13.94
2,3,4,7,8-P <sub>5</sub> CDF .....	1.395	<sup>13</sup> C-2,3,4,7,8-P <sub>5</sub> CDF .....	13.95
1,2,3,4,7,8-HCDF .....	1.398	<sup>13</sup> C-1,2,3,4,7,8-HCDF .....	13.90
1,2,3,6,7,8-HCDF .....	1.393	<sup>13</sup> C-1,2,3,6,7,8-HCDF .....	13.93
1,2,3,7,8,9-HCDF .....	1.397	<sup>13</sup> C-1,2,3,7,8,9-HCDF .....	13.93
2,3,4,6,7,8-HCDF .....	1.387	<sup>13</sup> C-2,3,4,6,7,8-HCDF .....	13.93
1,2,3,4,6,7,8-HCDF .....	2.787	<sup>13</sup> C-1,2,3,4,6,7,8-HCDF .....	27.92
1,2,3,4,7,8,9-HCDF .....	2.78	<sup>13</sup> C-1,2,3,4,7,8,9-HCDF .....	27.87
1,2,3,4,6,7,8,9-O <sub>8</sub> CDF .....	2.79	<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDF .....	27.88
		<sup>13</sup> C-1,2,3,4-T <sub>4</sub> CDD .....	13.94

### BCR-614 S2

#### SOLUTION OF PCDD/Fs IN N-NONANE

0.8 g

The solution of natural and labelled PCDD and PCDF congeners in n-nonane is presented in brown glass ampoules sealed under helium gas.

#### POLYCHLORODIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORODIBENZOFURANS (PCDFs) IN N-NONANE

##### Certified Value

Congener	Certified value [g/g]	Congener	Certified value [g/g]
2,3,7,8-T <sub>4</sub> CDD .....	1.09	<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDD .....	13.95
1,2,3,7,8-P <sub>5</sub> CDD .....	5.57	<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDD .....	13.9



## Dioxin / Furan / Pollutants std

Code	Product	Unit
	2,3,7,8-T <sub>4</sub> CDD ..... 1.09	<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDD ..... 13.95
	1,2,3,7,8-P <sub>5</sub> CDD ..... 5.57	<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDD ..... 13.9
	1,2,3,4,7,8-HCDD ..... 5.49	<sup>13</sup> C-1,2,3,4,7,8-HCDD ..... 13.98
	1,2,3,6,7,8-HCDD ..... 5.56	<sup>13</sup> C-1,2,3,6,7,8-HCDD ..... 13.93
	1,2,3,7,8,9-HCDD ..... 5.63	<sup>13</sup> C-1,2,3,7,8,9-HCDD ..... 13.94
	1,2,3,4,6,7,8-HCDD ..... 11.18	<sup>13</sup> C-1,2,3,4,6,7,8-HCDD ..... 27.9
	1,2,3,4,6,7,8,9-O <sub>8</sub> CDD ..... 11.15	<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDD ..... 27.86
	2,3,7,8-T <sub>4</sub> CDF ..... 1.116	<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDF ..... 13.96
	1,2,3,7,8-P <sub>5</sub> CDF ..... 5.65	<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDF ..... 13.93
	2,3,4,7,8-P <sub>5</sub> CDF ..... 5.58	<sup>13</sup> C-2,3,4,7,8-P <sub>5</sub> CDF ..... 13.94
	1,2,3,4,7,8-HCDF ..... 5.59	<sup>13</sup> C-1,2,3,4,7,8-HCDF ..... 13.89
	1,2,3,6,7,8-HCDF ..... 5.57	<sup>13</sup> C-1,2,3,6,7,8-HCDF ..... 13.93
	1,2,3,7,8,9-HCDF ..... 5.59	<sup>13</sup> C-1,2,3,7,8,9-HCDF ..... 13.93
	2,3,4,6,7,8-HCDF ..... 5.55	<sup>13</sup> C-2,3,4,6,7,8-HCDF ..... 13.93
	1,2,3,4,6,7,8-HCDF ..... 11.15	<sup>13</sup> C-1,2,3,4,6,7,8-HCDF ..... 27.90
	1,2,3,4,7,8,9-HCDF ..... 11.14	<sup>13</sup> C-1,2,3,4,7,8,9-HCDF ..... 27.86
	1,2,3,4,6,7,8,9-O <sub>8</sub> CDF ..... 11.16	<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDF ..... 27.87
		<sup>13</sup> C-1,2,3,4-T <sub>4</sub> CDD ..... 13.93

### BCR-614 S2

### SOLUTION OF PCDD/Fs IN N-NONANE

0.8 g

The solution of natural and labelled PCDD and PCDF congeners in n-nonane is presented in brown glass ampoules sealed under helium gas.

#### POLYCHLORODIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORODIBENZOFURANS (PCDFs) IN N-NONANE

##### Certified Value

Congener	Certified value [µg/kg]	Congener	Certified value [µg/kg]
2,3,7,8-T <sub>4</sub> CDD ..... 1.09		<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDD ..... 13.95	
1,2,3,7,8-P <sub>5</sub> CDD ..... 5.57		<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDD ..... 13.9	
1,2,3,4,7,8-HCDD ..... 5.49		<sup>13</sup> C-1,2,3,4,7,8-HCDD ..... 13.98	
1,2,3,6,7,8-HCDD ..... 5.56		<sup>13</sup> C-1,2,3,6,7,8-HCDD ..... 13.93	
1,2,3,7,8,9-HCDD ..... 5.63		<sup>13</sup> C-1,2,3,7,8,9-HCDD ..... 13.94	
1,2,3,4,6,7,8-HCDD ..... 11.18		<sup>13</sup> C-1,2,3,4,6,7,8-HCDD ..... 27.9	
1,2,3,4,6,7,8,9-O <sub>8</sub> CDD ..... 11.15		<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDD ..... 27.86	
2,3,7,8-T <sub>4</sub> CDF ..... 1.116		<sup>13</sup> C-2,3,7,8-T <sub>4</sub> CDF ..... 13.96	
1,2,3,7,8-P <sub>5</sub> CDF ..... 5.65		<sup>13</sup> C-1,2,3,7,8-P <sub>5</sub> CDF ..... 13.93	
2,3,4,7,8-P <sub>5</sub> CDF ..... 5.58		<sup>13</sup> C-2,3,4,7,8-P <sub>5</sub> CDF ..... 13.94	
1,2,3,4,7,8-HCDF ..... 5.59		<sup>13</sup> C-1,2,3,4,7,8-HCDF ..... 13.89	
1,2,3,6,7,8-HCDF ..... 5.57		<sup>13</sup> C-1,2,3,6,7,8-HCDF ..... 13.93	
1,2,3,7,8,9-HCDF ..... 5.59		<sup>13</sup> C-1,2,3,7,8,9-HCDF ..... 13.93	
2,3,4,6,7,8-HCDF ..... 5.55		<sup>13</sup> C-2,3,4,6,7,8-HCDF ..... 13.93	
1,2,3,4,6,7,8-HCDF ..... 11.15		<sup>13</sup> C-1,2,3,4,6,7,8-HCDF ..... 27.90	
1,2,3,4,7,8,9-HCDF ..... 11.14		<sup>13</sup> C-1,2,3,4,7,8,9-HCDF ..... 27.86	
1,2,3,4,6,7,8,9-O <sub>8</sub> CDF ..... 11.16		<sup>13</sup> C-1,2,3,4,6,7,8,9-O <sub>8</sub> CDF ..... 27.87	
		<sup>13</sup> C-1,2,3,4-T <sub>4</sub> CDD ..... 13.93	

## Dioxin / Furan / Pollutants std

Code	Product	Unit																																																																												
<b>BCR-614 S3</b>	<b>SOLUTION OF PCDD/Fs IN N-NONANE</b>	0.8 g																																																																												
	The solution of natural and labelled PCDD and PCDF congeners in n-nonane is presented in brown glass ampoules sealed under helium gas.																																																																													
	POLYCHLORODIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORODIBENZOFURANS (PCDFs) IN N-NONANE																																																																													
	Certified Value																																																																													
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<b>NIST-2621a</b>	<b>Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1.5 % mol/mol)</b>	6 L cylinder																																																																												
	This SRM mixture is supplied in a DOT 3AL-specification aluminum (6061 alloy) cylinder with a water volume of 6 L. Mixtures are shipped with a nominal pressure exceeding 12.4 MPa (1800 psig), which provides the user with 0.73 m <sup>3</sup> (25.8 ft <sup>3</sup> ) of useable mixture.																																																																													
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	Carbon Dioxide Concentration .....	1.4594 % mol/mol ± 0.0016 % mol/mol																																																																												

## Dioxin / Furan / Pollutants std

Code	Product	Unit
<b>NIST-2622a</b>	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 2 % mol/mol)	6 L cylinder
	This SRM mixture is supplied in a DOT 3AL-specification aluminum (6061 alloy) cylinder with a water volume of 6 L. Mixtures are shipped with a nominal pressure exceeding 12.4 MPa (1800 psig), which provides the user with 0.73 m <sup>3</sup> (25.8 ft <sup>3</sup> ) of useable mixture.	
	Certified Value	
	Carbon Dioxide Concentration ..... 1.9868 % mol/mol ± 0.0025 % mol/mol	

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