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**NEW PRODUCTS****PCN-CVS-A & Related Support Solutions**

Although polychlorinated naphthalenes (PCNs) were added to the Stockholm Convention in 2015, and have been identified as potential dioxin-like toxicants, interest in the environmental monitoring of these compounds has been slow to develop. However, in response to increased market interest over the past few years, the scientists at Wellington synthesized relevant native and mass-labelled PCN congeners that were not commercially available. Synthetic targets were selected based on the PCN congeners that were known to be potentially toxic, were major incineration products and/or components of technical mixtures, and were identified as window definers on DB-5 type columns.

With input from experts in the field, a comprehensive PCN calibration set (**PCN-CVS-A**) was prepared to facilitate environmental monitoring and ensure protection of environmental and human health. Details of this calibration set and associated support solutions (**PCN-STK-A**, **PCN-LCS-A**, **PCN-ISS-A**, and **PCN-SS-A**) are provided in the tables below.

Catalogue Number	Product (nonane)	Qty
<b>PCN-CVS-A</b>	<b>Polychlorinated Naphthalenes Calibration Solutions for GC/MS</b> <b>CS1-CS5 (see Table A for concentrations)</b>	1 kit (5 ampoules)
<b>PCN-CS1-A</b>	<b>CS1</b>	200 µL
<b>PCN-CS2-A</b>	<b>CS2</b>	200 µL
<b>PCN-CS3-A</b>	<b>CS3</b>	200 µL
<b>PCN-CS4-A</b>	<b>CS4</b>	200 µL
<b>PCN-CS5-A</b>	<b>CS5</b>	200 µL

Catalogue Number	Product (nonane)	Qty	Conc
<b>PCN-STK-A</b>	<b>PCN Native Stock Solution</b>	1.2 mL	1000 ng/mL
<b>PCN-LCS-A</b>	<b>PCN Extraction Standard Solution</b>	1.2 mL	1000 ng/mL
<b>PCN-ISS-A</b>	<b>PCN Injection Standard Solution</b>	1.2 mL	1000 ng/mL
<b>PCN-SS-A</b>	<b>PCN Sampling Standard Solution</b>	1.2 mL	1000 ng/mL

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<b>TABLE A: PCN-CVS-A</b>		<b>PCN-CS1-A</b>	<b>PCN-CS2-A</b>	<b>PCN-CS3-A</b>	<b>PCN-CS4-A</b>	<b>PCN-CS5-A</b>
<b>NATIVE PCNs (PCN-STK-A)</b>	<b>Congener</b>	<b>(ng/mL)</b>	<b>(ng/mL)</b>	<b>(ng/mL)</b>	<b>(ng/mL)</b>	<b>(ng/mL)</b>
1-Chloronaphthalene	1	1.00	5.00	20.0	100	500
2-Chloronaphthalene	2	1.00	5.00	20.0	100	500
1,3-Dichloronaphthalene	4	1.00	5.00	20.0	100	500
1,4-Dichloronaphthalene	5	1.00	5.00	20.0	100	500
1,8-Dichloronaphthalene	9	1.00	5.00	20.0	100	500
2,7-Dichloronaphthalene	12	1.00	5.00	20.0	100	500
1,2,3-Trichloronaphthalene	13	1.00	5.00	20.0	100	500
1,2,7-Trichloronaphthalene	17	1.00	5.00	20.0	100	500
1,2,8-Trichloronaphthalene	18	1.00	5.00	20.0	100	500
1,3,6-Trichloronaphthalene	20	1.00	5.00	20.0	100	500
1,4,5-Trichloronaphthalene	23	1.00	5.00	20.0	100	500
1,4,6-Trichloronaphthalene	24	1.00	5.00	20.0	100	500
1,2,3,5-Tetrachloronaphthalene	28	1.00	5.00	20.0	100	500
1,2,5,7-Tetrachloronaphthalene	37	1.00	5.00	20.0	100	500
1,2,6,8-Tetrachloronaphthalene	40	1.00	5.00	20.0	100	500
1,2,7,8-Tetrachloronaphthalene	41	1.00	5.00	20.0	100	500
1,3,5,7-Tetrachloronaphthalene	42	1.00	5.00	20.0	100	500
2,3,6,7-Tetrachloronaphthalene	48	1.00	5.00	20.0	100	500
1,2,3,5,7-Pentachloronaphthalene	52	1.00	5.00	20.0	100	500
1,2,3,5,8-Pentachloronaphthalene	53	1.00	5.00	20.0	100	500
1,2,3,6,7-Pentachloronaphthalene	54	1.00	5.00	20.0	100	500
1,2,3,7,8-Pentachloronaphthalene	56	1.00	5.00	20.0	100	500
1,2,4,5,8-Pentachloronaphthalene	59	1.00	5.00	20.0	100	500
1,2,3,4,5,6-Hexachloronaphthalene	63	1.00	5.00	20.0	100	500
1,2,3,5,6,7-Hexachloronaphthalene	67	1.00	5.00	20.0	100	500
1,2,3,5,6,8-Hexachloronaphthalene	68	1.00	5.00	20.0	100	500
1,2,3,5,7,8-Hexachloronaphthalene	69	1.00	5.00	20.0	100	500
1,2,3,6,7,8-Hexachloronaphthalene	70	1.00	5.00	20.0	100	500
1,2,4,5,7,8-Hexachloronaphthalene	72	1.00	5.00	20.0	100	500
1,2,3,4,5,6,7-Heptachloronaphthalene	73	1.00	5.00	20.0	100	500
1,2,3,4,5,6,8-Heptachloronaphthalene	74	1.00	5.00	20.0	100	500
Octachloronaphthalene	75	1.00	5.00	20.0	100	500
<b>EXTRACTION STANDARDS (PCN-LCS-A)</b>						
1-Chloro( <sup>13</sup> C <sub>10</sub> )naphthalene	1L	10.0	10.0	10.0	10.0	10.0
1,4-Dichloro( <sup>13</sup> C <sub>10</sub> )naphthalene	5L	10.0	10.0	10.0	10.0	10.0
1,4,6-Trichloro( <sup>13</sup> C <sub>10</sub> )naphthalene	24L	10.0	10.0	10.0	10.0	10.0
2,3,6,7-Tetrachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	48L	10.0	10.0	10.0	10.0	10.0
1,2,3,6,7-Pentachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	54L	10.0	10.0	10.0	10.0	10.0
1,2,3,5,6,7-Hexachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	67L	10.0	10.0	10.0	10.0	10.0
1,2,3,6,7,8-Hexachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	70L	10.0	10.0	10.0	10.0	10.0
1,2,4,5,7,8-Hexachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	72L	10.0	10.0	10.0	10.0	10.0
1,2,3,4,5,6,7-Heptachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	73L	10.0	10.0	10.0	10.0	10.0
Octachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	75L	10.0	10.0	10.0	10.0	10.0
<b>INJECTION STANDARDS (PCN-ISS-A)</b>						
1,4,5-Trichloro( <sup>13</sup> C <sub>10</sub> )naphthalene	23L	10.0	10.0	10.0	10.0	10.0
1,2,4,5,8-Pentachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	59L	10.0	10.0	10.0	10.0	10.0
1,2,3,4,5,6,8-Heptachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	74L	10.0	10.0	10.0	10.0	10.0
<b>SAMPLING STANDARD (PCN-SS-A)</b>						
1,2,3,7,8-Pentachloro( <sup>13</sup> C <sub>10</sub> )naphthalene	56L	10.0	10.0	10.0	10.0	10.0

