

## 別紙

## 平成18年度飼料のダイオキシン類実態調査等結果

(単位: ng-TEQ/kg)

| 飼料の種類   | PCDDs+PCDFs | Co-PCBs | 総計    |
|---------|-------------|---------|-------|
| 魚 粉     | 0.05        | 0.74    | 0.79  |
|         | 0.03        | 0.88    | 0.91  |
|         | 0.25        | 0.66    | 0.91  |
|         | 0.15        | 0.64    | 0.79  |
|         | 0.43        | 2.0     | 2.4   |
|         | 0.08        | 0.61    | 0.70  |
|         | 0.28        | 1.1     | 1.4   |
|         | 0.14        | 0.73    | 0.87  |
|         | 0.36        | 1.5     | 1.8   |
|         | 0.35        | 1.8     | 2.1   |
| 動物性油脂   | 0.03        | 0.18    | 0.21  |
|         | 0.01        | 0.04    | 0.06  |
|         | 0.004       | 0.10    | 0.10  |
|         | 0.28        | 1.0     | 1.3   |
|         | 0.01        | 0.19    | 0.21  |
|         | 0.02        | 0.09    | 0.10  |
|         | 0.01        | 0.17    | 0.18  |
|         | 0.03        | 0.08    | 0.11  |
|         | 0.003       | 0.21    | 0.21  |
|         | 0.03        | 0.49    | 0.52  |
| 原料混合肉骨粉 | 0.14        | 0.21    | 0.35  |
|         | 0.07        | 0.22    | 0.29  |
|         | 0.06        | 0.21    | 0.27  |
|         | 0.06        | 0.09    | 0.15  |
|         | 0.03        | 0.05    | 0.08  |
|         | 0.10        | 0.52    | 0.62  |
|         | 0.002       | 0.04    | 0.04  |
|         | 0.0001      | 0.06    | 0.06  |
|         | 0.003       | 0.001   | 0.004 |
|         | 0.0002      | 0.06    | 0.06  |
| 魚 油     | 0.95        | 11      | 12    |
|         | 0.03        | 0.79    | 0.82  |
|         | 1.9         | 11      | 13    |
|         | 2.8         | 15      | 18    |
|         | 1.5         | 5.9     | 7.4   |
|         | 3.2         | 9.9     | 13    |

注 数値は有効数字3桁目を四捨五入して有効数字2桁で表示。

ただし、0.1未満の数値は有効数字1桁で表示。

別表 ダイオキシン類各異性体の試験結果及び毒性当量

(1/6)

( 異性体の試験結果の単位 : ng/kg、毒性当量の単位 : ng-TEQ/kg )

| 分類      | 異性体名                       | TEF     | 魚 粉    |        |        |        |        |       |        |
|---------|----------------------------|---------|--------|--------|--------|--------|--------|-------|--------|
|         |                            |         | 1      | 2      | 3      | 4      | 5      | 6     | 7      |
| PCDDs   | 2,3,7,8-TeCDD              | 1       | 0.03 * | 0.02 * | 0.05 * | 0.04 * | 0.11   | ND    | 0.05   |
|         | 1,2,3,7,8-PeCDD            | 1       | ND     | ND     | ND     | ND     | ND     | ND    | ND     |
|         | 1,2,3,4,7,8-HxCDD          | 0.1     | ND     | ND     | 0.09 * | ND     | ND     | ND    | 0.06 * |
|         | 1,2,3,6,7,8-HxCDD          | 0.1     | 0.04 * | ND     | 0.19   | ND     | 0.09 * | ND    | 0.12   |
|         | 1,2,3,7,8,9-HxCDD          | 0.1     | ND     | ND     | 0.14   | ND     | 0.04 * | ND    | 0.04 * |
|         | 1,2,3,4,6,7,8-HpCDD        | 0.01    | 0.05 * | ND     | 0.64   | 0.26   | 0.17   | ND    | 0.25   |
|         | 1,2,3,4,6,7,8,9-OcCDD      | 0.0003  | 0.95 * | 0.17 * | 6.5    | 1.9    | 2.4    | 0.47  | 2.0    |
| PCDFs   | 2,3,7,8-TeCDF              | 0.1     | 0.04 * | 0.04 * | 0.49   | 0.44   | 0.68   | 0.23  | 0.61   |
|         | 1,2,3,7,8-PeCDF            | 0.03    | 0.05   | 0.05   | 0.18   | 0.13   | 0.30   | 0.10  | 0.18   |
|         | 2,3,4,7,8-PeCDF            | 0.3     | 0.17   | 0.08   | 0.40   | 0.34   | 0.81   | 0.19  | 0.47   |
|         | 1,2,3,4,7,8-HxCDF          | 0.1     | ND     | ND     | 0.10   | ND     | 0.09 * | ND    | 0.08 * |
|         | 1,3,6,7,8-HxCDF            | 0.1     | ND     | ND     | ND     | 0.04 * | 0.09 * | ND    | 0.06 * |
|         | 1,2,3,7,8,9-HxCDF          | 0.1     | ND     | ND     | ND     | ND     | ND     | ND    | ND     |
|         | 2,3,4,6,7,8-HxCDF          | 0.1     | ND     | ND     | 0.20   | ND     | 0.08 * | ND    | 0.10 * |
|         | 1,2,3,4,6,7,8-HpCDF        | 0.01    | ND     | ND     | 0.16   | 0.03 * | 0.07 * | ND    | 0.05 * |
|         | 1,2,3,4,7,8,9-HpCDF        | 0.01    | ND     | ND     | ND     | ND     | ND     | ND    | ND     |
|         | 1,2,3,4,6,7,8,9-OcCDF      | 0.0003  | ND     | ND     | 0.25   | ND     | ND     | ND    | ND     |
| ノンオルト   | 3,4,4',5-TeCB(81)          | 0.0003  | 0.94   | 0.56   | 1.0    | 1.2    | 3.1    | 1.0   | 1.7    |
| Co-PCBs | 3,3',4,4'-TeCB (77)        | 0.0001  | 14     | 8.3    | 18     | 15     | 51     | 20    | 24     |
|         | 3,3',4,4',5-PeCB(126)      | 0.1     | 6.3    | 7.5    | 5.9    | 5.6    | 18     | 5     | 9.9    |
|         | 3,3',4,4',5,5'-HxCB(169)   | 0.03    | 2.6    | 3.0    | 1.2    | 1.5    | 3.9    | 2     | 2.4    |
| モノオルト   | 2',3,4,4',5-PeCB(123)      | 0.00003 | 10     | 15     | 11     | 10     | 35     | 12    | 17     |
| Co-PCBs | 2,3',4,4',5-PeCB(118)      | 0.00003 | 560    | 850    | 650    | 580    | 1,900  | 620   | 950    |
|         | 2,3,4,4',5-PeCB(114)       | 0.00003 | 12     | 21     | 16     | 13     | 46     | 16    | 22     |
|         | 2,3,3',4,4'-PeCB(105)      | 0.00003 | 170    | 260    | 220    | 190    | 650    | 190   | 310    |
|         | 2,3',4,4',5,5'-HxCB(167)   | 0.00003 | 53     | 65     | 40     | 35     | 150    | 45    | 85     |
|         | 2,3,3',4,4',5-HxCB(156)    | 0.00003 | 76     | 110    | 67     | 63     | 300    | 68    | 160    |
|         | 2,3,3',4,4',5'-HxCB(157)   | 0.00003 | 20     | 25     | 21     | 18     | 64     | 17    | 34     |
|         | 2,3,3',4,4',5,5'-HpCB(189) | 0.00003 | 9.3    | 11     | 7.4    | 6.7    | 33     | 6.4   | 21     |
| 毒性当量    | PCDDs+PCDFs                |         | 0.054  | 0.026  | 0.25   | 0.15   | 0.43   | 0.083 | 0.28   |
|         | Co-PCBs                    |         | 0.74   | 0.88   | 0.66   | 0.64   | 2.0    | 0.61  | 1.1    |
|         | 総 計                        |         | 0.79   | 0.91   | 0.91   | 0.79   | 2.4    | 0.70  | 1.4    |

注) TEFは毒性等価係数、NDは検出下限値未満、\*が付されている数値は定量下限値未満

検出下限値、定量下限値、毒性等価係数及び毒性当量の算出方法は本文参照

(2/6)

(異性体の試験結果の単位: ng/kg、毒性当量の単位: ng-TEQ/kg)

| 分類      | 異性体名                       | TEF     | 魚 粉    |        |        |        |        |        |
|---------|----------------------------|---------|--------|--------|--------|--------|--------|--------|
|         |                            |         | 8      | 9      | 10     | 11     | 12     | 13     |
| PCDDs   | 2,3,7,8-TeCDD              | 1       | ND     | 0.10   | 0.08   | ND     | ND     | ND     |
|         | 1,2,3,7,8-PeCDD            | 1       | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,7,8-HxCDD          | 0.1     | ND     | 0.03 * | ND     | ND     | ND     | 0.04 * |
|         | 1,2,3,6,7,8-HxCDD          | 0.1     | ND     | ND     | 0.11   | ND     | ND     | 0.08 * |
|         | 1,2,3,7,8,9-HxCDD          | 0.1     | ND     | 0.03 * | 0.06 * | ND     | ND     | 0.04 * |
|         | 1,2,3,4,6,7,8-HpCDD        | 0.01    | 0.05 * | 0.14   | 0.17   | ND     | 0.52   | 0.27   |
|         | 1,2,3,4,6,7,8,9-OCDD       | 0.0003  | 0.34   | 1.5    | 1.3    | 0.20 * | 1.6    | 3.1    |
| PCDFs   | 2,3,7,8-TeCDF              | 0.1     | 0.55   | 0.68   | 0.67   | 0.05   | 0.08   | 0.03 * |
|         | 1,2,3,7,8-PeCDF            | 0.03    | 0.24   | 0.21   | 0.25   | 0.02 * | ND     | ND     |
|         | 2,3,4,7,8-PeCDF            | 0.3     | 0.17   | 0.61   | 0.60   | 0.09   | 0.05 * | ND     |
|         | 1,2,3,4,7,8-HxCDF          | 0.1     | 0.06 * | 0.09 * | 0.05 * | ND     | ND     | 0.10 * |
|         | 1,3,6,7,8-HxCDF            | 0.1     | 0.12   | ND     | 0.10 * | ND     | ND     | 0.12   |
|         | 1,2,3,7,8,9-HxCDF          | 0.1     | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 2,3,4,6,7,8-HxCDF          | 0.1     | 0.13   | ND     | ND     | ND     | ND     | 0.11   |
|         | 1,2,3,4,6,7,8-HpCDF        | 0.01    | 0.04 * | 0.08 * | 0.05 * | ND     | ND     | 0.09 * |
|         | 1,2,3,4,7,8,9-HpCDF        | 0.01    | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,6,7,8,9-OCDF       | 0.0003  | ND     | ND     | ND     | ND     | ND     | ND     |
| ノンオルト   | 3,4,4',5-TeCB(81)          | 0.0003  | 0.78   | 2.0    | 2.6    | 0.25   | 0.17   | 0.29   |
| Co-PCBs | 3,3',4,4'-TeCB (77)        | 0.0001  | 15     | 28     | 35     | 4.7    | 3.6    | 7.1    |
|         | 3,3',4,4',5-PeCB(126)      | 0.1     | 6.5    | 13     | 16     | 1.4    | 0.35   | 0.94   |
|         | 3,3',4,4',5,5'-HxCB(169)   | 0.03    | 1.7    | 3.8    | 4.3    | 1.1    | 0.21   | 0.12   |
| モノオルト   | 2',3,4,4',5-PeCB(123)      | 0.00003 | 14     | 21     | 26     | 1.5    | 0.72   | 1.0    |
| Co-PCBs | 2,3',4,4',5-PeCB(118)      | 0.00003 | 650    | 1,300  | 1,600  | 88     | 32     | 55     |
|         | 2,3,4,4',5-PeCB(114)       | 0.00003 | 17     | 31     | 33     | 2.0    | 0.60   | 1.2    |
|         | 2,3,3',4,4'-PeCB(105)      | 0.00003 | 210    | 350    | 430    | 30     | 11     | 25     |
|         | 2,3,3',4,4',5-HxCB(156)    | 0.00003 | 31     | 88     | 110    | 11     | 3.3    | 3.4    |
|         | 2,3,3',4,4',5-HxCB(157)    | 0.00003 | 58     | 160    | 190    | 15     | 5.4    | 5.1    |
|         | 2,3',4,4',5,5'-HxCB(167)   | 0.00003 | 19     | 39     | 50     | 3.9    | 1.2    | 1.4    |
|         | 2,3,3',4,4',5,5'-HpCB(189) | 0.00003 | 5.6    | 22     | 23     | 1.6    | 0.83   | 0.43 * |
|         | 総 計                        |         | 0.87   | 1.8    | 2.1    | 0.21   | 0.057  | 0.10   |
| 毒性当量    | PCDDs+PCDFs                |         | 0.14   | 0.36   | 0.35   | 0.031  | 0.014  | 0.0036 |
|         | Co-PCBs                    |         | 0.73   | 1.5    | 1.8    | 0.18   | 0.043  | 0.10   |
|         | 総 計                        |         | 0.87   | 1.8    | 2.1    | 0.21   | 0.057  | 0.10   |

注) TEFは毒性等価係数、NDは検出下限値未満、\*が付されている数値は定量下限値未満

検出下限値、定量下限値、毒性等価係数及び毒性当量の算出方法は本文参照

(3/6)

(異性体の試験結果の単位: ng/kg、毒性当量の単位: ng-TEQ/kg)

| 分類      | 異性体名                       | TEF         | 動物性油脂  |        |        |        |        |        |
|---------|----------------------------|-------------|--------|--------|--------|--------|--------|--------|
|         |                            |             | 1      | 2      | 3      | 4      | 5      | 6      |
| PCDDs   | 2,3,7,8-TeCDD              | 1           | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,7,8-PeCDD            | 1           | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,7,8-HxCDD          | 0.1         | ND     | ND     | 0.06 * | 0.12   | ND     | ND     |
|         | 1,2,3,6,7,8-HxCDD          | 0.1         | ND     | 0.11   | ND     | 0.11   | 0.04 * | 0.11   |
|         | 1,2,3,7,8,9-HxCDD          | 0.1         | ND     | ND     | ND     | ND     | ND     | 0.04 * |
|         | 1,2,3,4,6,7,8-HpCDD        | 0.01        | 0.17   | 0.42   | 0.63   | 0.28   | 0.18   | 0.28   |
|         | 1,2,3,4,6,7,8,9-OCDD       | 0.0003      | 2.3    | 4.8    | 8.0    | 2.7    | 2.7    | 3.1    |
| PCDFs   | 2,3,7,8-TeCDF              | 0.1         | 0.10   | ND     | ND     | ND     | ND     | 0.13   |
|         | 1,2,3,7,8-PeCDF            | 0.03        | 0.08   | ND     | ND     | ND     | 0.03 * | 0.07   |
|         | 2,3,4,7,8-PeCDF            | 0.3         | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,7,8-HxCDF          | 0.1         | 0.04 * | ND     | ND     | 0.07 * | ND     | 0.07 * |
|         | 1,3,6,7,8-HxCDF            | 0.1         | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,7,8,9-HxCDF          | 0.1         | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 2,3,4,6,7,8-HxCDF          | 0.1         | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,6,7,8-HpCDF        | 0.01        | ND     | 0.06 * | 0.13   | 0.09 * | ND     | 0.11   |
|         | 1,2,3,4,7,8,9-HpCDF        | 0.01        | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,6,7,8,9-OCDF       | 0.0003      | ND     | ND     | ND     | ND     | ND     | ND     |
| ノンオルト   | 3,4,4',5-TeCB(81)          | 0.0003      | 0.16   | 0.15   | 0.16   | 0.25   | 0.35   | 0.97   |
| Co-PCBs | 3,3',4,4'-TeCB (77)        | 0.0001      | 6.5    | 0.80   | 0.51   | 2.9    | 3.6    | 12     |
|         | 3,3',4,4',5-PeCB(126)      | 0.1         | 1.7    | 0.70   | 1.4    | 0.74   | 1.8    | 4.3    |
|         | 3,3',4,4',5,5'-HxCB(169)   | 0.03        | 0.29   | 0.28   | 0.67   | 0.17   | 0.65   | 1.2    |
| モノオルト   | 2',3,4,4',5-PeCB(123)      | 0.00003     | 3.0    | 2.1    | 1.3    | 1.4    | 3.3    | 8.1    |
| Co-PCBs | 2,3',4,4',5-PeCB(118)      | 0.00003     | 200    | 190    | 120    | 94     | 180    | 520    |
|         | 2,3,4,4',5-PeCB(114)       | 0.00003     | 4.1    | 4.2    | 3.9    | 2.2    | 4.4    | 12     |
|         | 2,3,3',4,4'-PeCB(105)      | 0.00003     | 64     | 53     | 28     | 25     | 52     | 150    |
|         | 2,3,3',4,4',5-HxCB(156)    | 0.00003     | 14     | 5.4    | 6.8    | 5.2    | 12     | 37     |
|         | 2,3,3',4,4',5-HxCB(157)    | 0.00003     | 26     | 15     | 19     | 10     | 20     | 60     |
|         | 2,3',4,4',5,5'-HxCB(167)   | 0.00003     | 6.5    | 4.7    | 6.4    | 2.9    | 5.4    | 16     |
|         | 2,3,3',4,4',5,5'-HpCB(189) | 0.00003     | 2.8    | 1.1    | 1.7    | 1.1    | 2.1    | 8.5    |
|         | 毒性当量                       | PCDDs+PCDFs | 0.015  | 0.017  | 0.010  | 0.027  | 0.003  | 0.031  |
|         | Co-PCBs                    |             | 0.19   | 0.086  | 0.17   | 0.084  | 0.21   | 0.49   |
|         | 総 計                        |             | 0.21   | 0.10   | 0.18   | 0.11   | 0.21   | 0.52   |

注) TEFは毒性等価係数、NDは検出下限値未満、\*が付されている数値は定量下限値未満

検出下限値、定量下限値、毒性等価係数及び毒性当量の算出方法は本文参照

(4/6)

(異性体の試験結果の単位:ng/kg、毒性当量の単位:ng-TEQ/kg)

| 分類      | 異性体名                       | TEF     | 動物性油脂  |        |        |        |        |        |
|---------|----------------------------|---------|--------|--------|--------|--------|--------|--------|
|         |                            |         | 7      | 8      | 9      | 10     | 11     | 12     |
| PCDDs   | 2,3,7,8-TeCDD              | 1       | ND     | ND     | ND     | ND     | ND     | 0.04 * |
|         | 1,2,3,7,8-PeCDD            | 1       | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,7,8-HxCDD          | 0.1     | ND     | 0.03 * | ND     | 0.06 * | ND     | ND     |
|         | 1,2,3,6,7,8-HxCDD          | 0.1     | 0.31   | 0.15   | ND     | 0.18   | ND     | 0.13   |
|         | 1,2,3,7,8,9-HxCDD          | 0.1     | 0.09 * | 0.07 * | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,6,7,8-HpCDD        | 0.01    | 2.1    | 0.69   | 0.81   | 1.3    | 0.83   | 0.38   |
|         | 1,2,3,4,6,7,8,9-OCDD       | 0.0003  | 17     | 7.6    | 6.3    | 10     | 17     | 3.7    |
| PCDFs   | 2,3,7,8-TeCDF              | 0.1     | 0.07   | 0.09   | 0.11   | ND     | 0.03 * | 0.21   |
|         | 1,2,3,7,8-PeCDF            | 0.03    | ND     | 0.06   | 0.06   | ND     | ND     | 0.12   |
|         | 2,3,4,7,8-PeCDF            | 0.3     | 0.15   | 0.11   | 0.12   | 0.10   | 0.07   | 0.18   |
|         | 1,2,3,4,7,8-HxCDF          | 0.1     | 0.14   | 0.07 * | 0.08 * | 0.10 * | ND     | 0.06 * |
|         | 1,3,6,7,8-HxCDF            | 0.1     | 0.12   | 0.06 * | 0.05 * | 0.07 * | ND     | 0.06 * |
|         | 1,2,3,7,8,9-HxCDF          | 0.1     | ND     | ND     | ND     | ND     | ND     | ND     |
|         | 2,3,4,6,7,8-HxCDF          | 0.1     | 0.04 * | ND     | ND     | 0.07 * | ND     | ND     |
|         | 1,2,3,4,6,7,8-HpCDF        | 0.01    | 0.54   | 0.14   | 0.13   | 0.15   | 0.10 * | 0.06 * |
|         | 1,2,3,4,7,8,9-HpCDF        | 0.01    | 0.06 * | ND     | ND     | ND     | ND     | ND     |
|         | 1,2,3,4,6,7,8,9-OCDF       | 0.0003  | 0.54   | 0.15 * | 0.07 * | 0.07 * | 0.09 * | ND     |
| ノンオルト   | 3,4,4',5-TeCB(81)          | 0.0003  | 0.49   | 0.45   | 0.41   | 0.14   | 0.06 * | 1.0    |
| Co-PCBs | 3,3',4,4'-TeCB (77)        | 0.0001  | 5.6    | 6.7    | 5.9    | 1.6    | 2.0    | 15     |
|         | 3,3',4,4',5-PeCB(126)      | 0.1     | 1.8    | 1.9    | 1.8    | 0.76   | 0.45   | 4.5    |
|         | 3,3',4,4',5,5'-HxCB(169)   | 0.03    | 0.56   | 0.52   | 0.62   | 0.30   | 0.09 * | 1.2    |
| モノオルト   | 2',3,4,4',5-PeCB(123)      | 0.00003 | 3.9    | 4.0    | 3.0    | 1.3    | 0.80   | 10     |
| Co-PCBs | 2,3',4,4',5-PeCB(118)      | 0.00003 | 230    | 250    | 190    | 81     | 43     | 550    |
|         | 2,3,4,4',5-PeCB(114)       | 0.00003 | 5.4    | 5.3    | 5.1    | 2.3    | 1.2    | 12     |
|         | 2,3,3',4,4'-PeCB(105)      | 0.00003 | 64     | 66     | 54     | 16     | 11     | 160    |
|         | 2,3,3',4,4',5-HxCB(156)    | 0.00003 | 14     | 17     | 12     | 3.8    | 2.5    | 42     |
|         | 2,3,3',4,4',5-HxCB(157)    | 0.00003 | 28     | 31     | 27     | 11     | 5.9    | 68     |
|         | 2,3',4,4',5,5'-HxCB(167)   | 0.00003 | 7.7    | 7.6    | 6.3    | 2.6    | 1.5    | 19     |
|         | 2,3,3',4,4',5,5'-HpCB(189) | 0.00003 | 3.3    | 3.7    | 2.9    | 1.1    | 0.61   | 11     |
| 毒性当量    | PCDDs+PCDFs                |         | 0.14   | 0.070  | 0.060  | 0.065  | 0.033  | 0.10   |
|         | Co-PCBs                    |         | 0.21   | 0.22   | 0.21   | 0.089  | 0.047  | 0.52   |
|         | 総 計                        |         | 0.35   | 0.29   | 0.27   | 0.15   | 0.081  | 0.62   |

注) TEFは毒性等価係数、NDは検出下限値未満、\*が付されている数値は定量下限値未満

検出下限値、定量下限値、毒性等価係数及び毒性当量の算出方法は本文参照

(5/6)

(異性体の試験結果の単位: ng/kg、毒性当量の単位: ng-TEQ/kg)

| 分類      | 異性体名                       | TEF         | 原料混合肉骨粉 |         |         |         |
|---------|----------------------------|-------------|---------|---------|---------|---------|
|         |                            |             | 1       | 2       | 3       | 4       |
| PCDDs   | 2,3,7,8-TeCDD              | 1           | ND      | ND      | ND      | ND      |
|         | 1,2,3,7,8-PeCDD            | 1           | ND      | ND      | ND      | ND      |
|         | 1,2,3,4,7,8-HxCDD          | 0.1         | ND      | ND      | ND      | ND      |
|         | 1,2,3,6,7,8-HxCDD          | 0.1         | ND      | ND      | ND      | ND      |
|         | 1,2,3,7,8,9-HxCDD          | 0.1         | ND      | ND      | ND      | ND      |
|         | 1,2,3,4,6,7,8-HpCDD        | 0.01        | 0.16    | 0.03 *  | 0.24    | 0.07 *  |
|         | 1,2,3,4,6,7,8,9-OCDD       | 0.0003      | 2.2     | 0.37    | 3.0     | 0.59    |
| PCDFs   | 2,3,7,8-TeCDF              | 0.1         | 0.02 *  | 0.04 *  | ND      | 0.04 *  |
|         | 1,2,3,7,8-PeCDF            | 0.03        | ND      | ND      | ND      | ND      |
|         | 2,3,4,7,8-PeCDF            | 0.3         | ND      | 0.02 *  | ND      | 0.03 *  |
|         | 1,2,3,4,7,8-HxCDF          | 0.1         | ND      | ND      | ND      | ND      |
|         | 1,3,6,7,8-HxCDF            | 0.1         | ND      | ND      | ND      | ND      |
|         | 1,2,3,7,8,9-HxCDF          | 0.1         | ND      | ND      | ND      | ND      |
|         | 2,3,4,6,7,8-HxCDF          | 0.1         | ND      | ND      | ND      | ND      |
|         | 1,2,3,4,6,7,8-HpCDF        | 0.01        | ND      | ND      | ND      | ND      |
|         | 1,2,3,4,7,8,9-HpCDF        | 0.01        | ND      | ND      | ND      | ND      |
|         | 1,2,3,4,6,7,8,9-OCDF       | 0.0003      | ND      | ND      | ND      | ND      |
| ノンオルト   | 3,4,4',5-TeCB(81)          | 0.0003      | 0.35    | 0.09 *  | ND      | 0.29    |
| Co-PCBs | 3,3',4,4'-TeCB (77)        | 0.0001      | 5.4     | 11      | 3.0     | 4.7     |
|         | 3,3',4,4',5-PeCB(126)      | 0.1         | 0.35    | 0.49    | ND      | 0.50    |
|         | 3,3',4,4',5,5'-HxCB(169)   | 0.03        | 0.10    | 0.12    | 0.08 *  | 0.16    |
| モノオルト   | 2',3,4,4',5-PeCB(123)      | 0.00003     | 0.91    | 1.0     | ND      | 1.4     |
| Co-PCBs | 2,3',4,4',5-PeCB(118)      | 0.00003     | 46      | 48      | 8.5     | 79      |
|         | 2,3,4,4',5-PeCB(114)       | 0.00003     | 1.5     | 1.3     | 0.30 *  | 1.7     |
|         | 2,3,3',4,4'-PeCB(105)      | 0.00003     | 17      | 16      | 2.9     | 25      |
|         | 2,3,3',4,4',5-HxCB(156)    | 0.00003     | 3.0     | 2.4     | 0.30 *  | 5.3     |
|         | 2,3,3',4,4',5'-HxCB(157)   | 0.00003     | 5.4     | 4.2     | 1.3     | 8.6     |
|         | 2,3',4,4',5,5'-HxCB(167)   | 0.00003     | 1.2     | 1.1     | 0.37 *  | 2.4     |
|         | 2,3,3',4,4',5,5'-HpCB(189) | 0.00003     | 0.70    | 0.43 *  | 0.15 *  | 1.3     |
|         | 毒性当量                       | PCDDs+PCDFs | 0.0023  | 0.00011 | 0.0033  | 0.00018 |
|         | Co-PCBs                    |             | 0.041   | 0.056   | 0.00068 | 0.059   |
|         | 総 計                        |             | 0.044   | 0.056   | 0.0040  | 0.059   |

注) TEFは毒性等価係数、NDは検出下限値未満、\*が付されている数値は定量下限値未満

検出下限値、定量下限値、毒性等価係数及び毒性当量の算出方法は本文参照

(6/6)

(異性体の試験結果の単位: ng/kg、毒性当量の単位: ng-TEQ/kg)

| 分類      | 異性体名                       | TEF     | 魚油     |        |        |        |       |        |
|---------|----------------------------|---------|--------|--------|--------|--------|-------|--------|
|         |                            |         | 1      | 2      | 3      | 4      | 5     | 6      |
| PCDDs   | 2,3,7,8-TeCDD              | 1       | 0.21   | ND     | 0.45   | 0.55   | ND    | 1.1    |
|         | 1,2,3,7,8-PeCDD            | 1       | ND     | ND     | ND     | ND     | ND    | ND     |
|         | 1,2,3,4,7,8-HxCDD          | 0.1     | ND     | ND     | 0.14   | 0.27   | 0.14  | 0.41   |
|         | 1,2,3,6,7,8-HxCDD          | 0.1     | 0.15   | ND     | 0.54   | ND     | 0.34  | 1.2    |
|         | 1,2,3,7,8,9-HxCDD          | 0.1     | ND     | ND     | 0.18   | 0.20   | ND    | 0.42   |
|         | 1,2,3,4,6,7,8-HpCDD        | 0.01    | ND     | ND     | 0.42   | 0.68   | 0.22  | 2.9    |
|         | 1,2,3,4,6,7,8,9-OCDD       | 0.0003  | 0.11 * | 0.12 * | 2.2    | 3.7    | 1.4   | 28     |
| PCDFs   | 2,3,7,8-TeCDF              | 0.1     | 1.8    | 0.29   | 4.1    | 5.7    | 3.9   | 5.5    |
|         | 1,2,3,7,8-PeCDF            | 0.03    | 0.73   | ND     | 1.1    | 1.6    | 1.2   | 1.2    |
|         | 2,3,4,7,8-PeCDF            | 0.3     | 1.7    | ND     | 2.7    | 5.0    | 3.2   | 4.0    |
|         | 1,2,3,4,7,8-HxCDF          | 0.1     | 0.16   | ND     | 0.29   | 0.47   | 0.41  | 0.43   |
|         | 1,3,6,7,8-HxCDF            | 0.1     | 0.12   | ND     | 0.34   | 0.56   | 0.40  | 0.39   |
|         | 1,2,3,7,8,9-HxCDF          | 0.1     | ND     | ND     | ND     | ND     | ND    | ND     |
|         | 2,3,4,6,7,8-HxCDF          | 0.1     | ND     | ND     | 0.37   | ND     | 0.45  | ND     |
|         | 1,2,3,4,6,7,8-HpCDF        | 0.01    | 0.08 * | ND     | 0.42   | 0.30   | 0.19  | 0.38   |
|         | 1,2,3,4,7,8,9-HpCDF        | 0.01    | ND     | ND     | ND     | ND     | ND    | ND     |
|         | 1,2,3,4,6,7,8,9-OCDF       | 0.0003  | ND     | ND     | ND     | ND     | ND    | 0.19 * |
| ノンオルト   | 3,4,4',5-TeCB(81)          | 0.0003  | 8.3    | 1.8    | 15     | 21     | 9.1   | 17     |
| Co-PCBs | 3,3',4,4'-TeCB (77)        | 0.0001  | 100    | 32     | 260    | 300    | 130   | 330    |
|         | 3,3',4,4',5-PeCB(126)      | 0.1     | 96     | 7.0    | 95     | 130    | 52    | 87     |
|         | 3,3',4,4',5,5'-HxCB(169)   | 0.03    | 39     | 1.4    | 27     | 40     | 14    | 22     |
| モノオルト   | 2',3,4,4',5-PeCB(123)      | 0.00003 | 170    | 14     | 200    | 240    | 61    | 180    |
| Co-PCBs | 2,3',4,4',5-PeCB(118)      | 0.00003 | 7,900  | 950    | 12,000 | 13,000 | 4,300 | 11,000 |
|         | 2,3,4,4',5-PeCB(114)       | 0.00003 | 210    | 17     | 250    | 250    | 100   | 250    |
|         | 2,3,3',4,4'-PeCB(105)      | 0.00003 | 2,000  | 260    | 3,600  | 3,900  | 1,400 | 3,800  |
|         | 2,3,3',4,4',5-HxCB(156)    | 0.00003 | 740    | 55     | 910    | 960    | 340   | 1,100  |
|         | 2,3,3',4,4',5-HxCB(157)    | 0.00003 | 900    | 110    | 1,500  | 1,800  | 570   | 1,300  |
|         | 2,3',4,4',5,5'-HxCB(167)   | 0.00003 | 240    | 25     | 390    | 430    | 180   | 410    |
|         | 2,3,3',4,4',5,5'-HpCB(189) | 0.00003 | 130    | 13     | 200    | 190    | 92    | 190    |
| 毒性当量    | PCDDs+PCDFs                |         | 0.95   | 0.029  | 1.9    | 2.8    | 1.5   | 3.2    |
|         | Co-PCBs                    |         | 11     | 0.79   | 11     | 15     | 5.9   | 9.9    |
|         | 総 計                        |         | 12     | 0.82   | 13     | 18     | 7.4   | 13     |

注) TEFは毒性等価係数、NDは検出下限値未満、\*が付されている数値は定量下限値未満

検出下限値、定量下限値、毒性等価係数及び毒性当量の算出方法は本文参照