

表 S1 实际空白样品中 48 种污染物的加标回收率和相对标准偏差 (n=6)

Table S1 Recoveries and RSDs of the 48 contaminants spiked in real blank samples
(n=6)

Analyte	Spiked level/(μ g/kg)	Polypropylene		Polyethylene		Polyethylenetere phthalate		Polycarbonate	
		Recove	RS	Recove	RS	Recover	RSD/	Recove	RS
		ry/%	D/%	ry/%	D/%	y/%	%	ry/%	D/%
Bis (2-methoxyet hyl) phthalate (DMEP)	30	78.1	7.8	81.2	8.9	84.2	9.4	84.5	10.5
	60	85.2	6.4	95.6	6.7	90.4	5.7	94.5	4.3
	300	94.9	7.9	101.5	3.5	94.2	6.2	102.3	5.1
Monobutyl phthalate (MBP)	30	108.8	7.9	74.5	10.6	81.2	10.8	74.2	9.4
	60	98.6	8.2	85.6	9.8	95.2	5.4	85.2	6.7
	300	106.7	3.1	91.5	6.1	100.4	3.1	99.2	5.2
Bis (2-ethoxyethy l) phthalate (DEEP)	30	89.5	10.2	71.8	9.4	94.8	9.8	75.6	8.9
	60	90.4	9.1	89.2	8.2	87.2	4.5	94.5	6.7
	300	95.8	6.3	91.0	3.4	94.3	6.1	105.6	4.1
Diallyl phthalate (DAP)	30	81.6	8.2	85.6	6.8	78.2	8.7	79.1	9.7
	60	76.3	7.4	90.0	7.4	94.2	5.1	89.9	6.1
	300	98.5	6.9	98.4	2.9	95.1	3.7	94.2	2.7
Diisopropylo- phthalate (DIPrP)	30	85.1	3.5	95.2	10.8	76.8	9.4	78.5	8.7
	60	94.9	5.6	89.9	9.4	94.5	6.8	94.6	6.4
	300	104.8	3.9	102.2	6.7	104.2	3.4	99.7	5.2
Diisopropylo- phthalate (DPrP)	30	75.4	11.4	84.2	8.9	87.2	8.7	89.2	9.4
	60	84.5	6.5	95.2	6.5	98.2	6.4	94.5	6.1
	300	101.1	7.0	109.1	2.4	106.2	2.7	103.6	7.2
Bis (2-ethylhexyl)	30	81.2	9.8	105.2	7.9	85.6	10.5	87.9	10.5
	60	98.4	6.4	101.1	5.1	100.5	9.7	94.5	8.4

phthalate (DPhP)	300	96.9	5.1	99.5	4.3	98.7	5.3	96.8	6.7
Dibutyl	30	79.8	10.8	84.5	11.5	79.5	11.7	81.4	10.9
phthalate (DBP)	60	75.4	6.2	94.1	6.8	87.5	6.7	94.5	6.3
	300	91.5	7.2	98.2	7.2	94.2	5.4	102.7	4.2
Diethyl	30	87.4	5.4	100.2	6.9	85.2	8.7	87.2	11.7
phthalate (DEP)	60	95.6	5.8	99.5	5.1	94.8	6.8	94.5	5.6
	300	102.7	2.4	90.1	6.4	105.1	5.1	104.4	4.2
Dibenzyl	30	74.9	6.8	75.2	9.4	78.6	7.8	79.5	8.9
phthalate (DBzP)	60	79.8	3.5	98.2	7.1	80.5	6.1	87.8	6.7
	300	95.9	6.4	94.1	3.3	97.2	5.5	105.2	4.3
Dihexyl	30	84.4	8.4	98.2	8.9	97.6	9.4	97.2	9.7
phthalate (BBP)	60	85.9	9.6	100.5	4.6	95.2	6.8	100.2	6.4
	300	94.3	4.0	97.8	6.7	95.6	7.5	97.5	3.4
Diisobutyl	30	84.8	11.4	94.5	10.1	85.6	8.6	84.2	6.7
phthalate (DIBP)	60	79.6	6.5	98.2	6.3	94.1	4.6	97.2	7.1
	300	99.7	3.6	97.5	7.8	105.2	5.1	103.5	3.0
Bis (2- <i>n</i> -butoxyet	30	85.3	8.9	74.5	6.8	79.6	10.2	84.5	11.5
hyl) phthalate (DBEP)	60	89.6	4.0	89.2	7.4	98.2	7.5	94.1	8.4
	300	95.9	5.9	99.1	3.5	90.2	3.4	104.5	6.5
Di-iso-amyl	30	74.6	7.8	87.2	8.9	74.9	8.1	76.4	9.4
phthalate (DIPP)	60	85.3	7.9	98.5	6.4	85.6	7.3	87.8	3.7
	300	92.7	3.2	105.2	2.9	102.5	6.4	98.4	5.2
Isopentyl	30	79.1	7.5	89.2	10.4	79.6	6.8	81.2	10.4
Pentyl	60	82.5	6.4	85.1	7.6	84.5	7.5	87.9	8.4
Phthalate (IPP)	300	94.8	2.9	97.2	6.3	96.8	4.2	94.8	3.2
Di- <i>N</i> --pentyl	30	91.9	6.9	75.6	10.5	98.2	8.9	97.2	9.8

phthalate	60	94.4	7.1	88.2	6.7	95.7	6.7	94.5	6.7
(DPP)	300	102.9	3.8	94.1	8.4	106.3	5.7	104.3	5.2
Dicyclohexyl	30	85.2	10.1	86.9	11.5	83.9	10.9	94.5	10.6
phthalate	60	94.3	5.4	84.2	7.8	94.3	3.8	97.2	7.8
(DCHP)	300	102.4	1.3	90.1	8.7	103.2	5.4	106.4	6.1
Bis	30	78.8	9.8	99.2	8.7	79.5	9.4	87.2	7.5
(4-methyl-2-p	60	85.3	4.9	94.1	6.4	78.2	5.8	94.3	6.0
entyl)									
phthalate	300	98.6	5.6	106.4	5.3	94.5	6.7	101.7	3.1
(BMPP)									
Dinonyl	30	84.1.	8.9	87.5	5.9	87.2	8.9	90.1	10.8
phthalate	60	95.9	3.2	95.2	6.8	94.5	4.2	98.5	7.2
(DNP)	300	94.5	4.1	104.0	4.3	98.2	5.9	105.7	4.3
Dihexyl	30	87.6	9.4	78.9	10.2	94.5	10.5	84.2	8.5
phthalate	60	89.6	8.9	89.2	6.4	102.3	7.9	95.7	3.7
(DHXP)	300	101.4	5.9	99.7	7.1	99.2	6.4	107.4	2.9
Phthalic acid,	30	87.8	4.9	98.0	6.7	87.2	8.7	79.6	6.8
hexyl-2-ethyl	60	94.7	6.8	94.1	5.9	94.5	6.4	89.4	7.2
hexyl ester									
(HEHP)	300	93.3	5.1	102.3	4.1	105.6	3.8	91.9	2.0
Bis	30	97.9	9.7	98.1	8.9	98.7	11.4	97.2	11.7
(2-ethylhexyl)	60	101.7	6.8	99.0	9.1	95.3	8.6	105.2	6.7
phthalate									
(DHP)	300	108.7	2.9	102.4	4.9	99.9	6.2	103.9	2.9
Phthalic acid	30	74.8	8.9	79.2	8.4	78.5	9.4	85.2	8.9
mono-2-ethylt	60	86.1	7.4	84.9	7.6	90.9	5.6	94.5	6.7
hexyl ester									
(MEHP)	300	105.5	3.5	90.9	4.3	105.2	3.7	99.5	4.3
Bis	30	78.6	6.8	91.2	9.5	94.5	9.7	84.7	6.8

(2-ethylhexyl)	60	84.7	7.4	94.5	7.6	99.6	6.1	96.7	7.5
phthalate	300	97.8	3.6	105.5	6.4	105.2	2.7	99.8	2.4
(DEHP)									
Diisooctyl	30	87.6	8.9	98.2	9.8	94.1	8.4	92.5	10.5
phthalate	60	94.4	6.9	94.1	7.4	89.2	6.7	105.4	9.2
(DIOP)	300	102.8	4.7	100.9	6.9	102.3	5.9	98.2	3.7
Methyl	30	79.4	7.7	78.9	10.7	85.2	6.8	84.2	9.8
hydrogen	60	86.6	8.1	81.9	6.8	84.1	8.1	94.1	4.6
phthalate	300	105.3	6.7	94.5	7.5	98.9	4.1	104.2	3.0
(MHP)									
Di- <i>n</i> -octyl	30	79.4	10.5	87.4	9.4	75.6	8.9	84.6	7.6
phthalate	60	84.9	5.8	86.9	5.4	89.6	6.4	91.5	6.4
(DNOP)	300	91.8	6.4	94.5	3.0	98.2	5.2	104.7	5.1
Diisononyl	30	101.4	6.1	85.6	8.6	78.9	9.8	76.7	9.4
ortho-phthalat	60	98.5	7.2	89.7	5.7	86.8	4.1	86.9	3.6
e (DINP)	300	108.1	3.4	95.6	3.1	97.2	5.6	99.9	5.4
Diisodecyl	30	89.4	9.8	85.2	8.4	91.2	9.7	97.2	8.9
ortho-phthalat	60	96.7	4.9	94.8	6.5	102.5	8.5	103.1	4.6
e (DIDP)	300	92.9	6.4	105.2	4.9	106.4	3.7	106.7	3.7
	30	103.2	11.8	98.2	10.6	98.7	10.5	101.9	9.7
C.I. 162	60	99.1	5.9	89.5	7.5	106.8	6.1	94.5	6.4
	300	106.2	7.1	102.5	6.9	105.3	5.7	106.7	5.2
	30	78.9	9.4	87.9	10.5	76.9	8.9	79.5	10.8
C.I. 140	60	84.2	8.5	96.5	7.8	85.2	6.7	94.5	6.4
	300	91.9	3.2	104.5	8.1	91.4	3.4	101.2	7.2
	30	96.4	7.8	89.2	8.9	99.2	8.9	94.5	10.5
C.I. 135	60	92.3	5.7	97.5	6.4	106.8	6.5	105.6	8.1
	300	102.5	6.1	105.4	7.2	103.1	4.2	101.4	4.7
C.I. 185	30	71.2	10.9	94.2	10.5	78.2	7.9	76.5	9.8

	60	80.2	6.4	90.9	9.4	86.9	6.8	87.9	3.4
	300	91.9	8.4	102.3	6.9	97.9	5.3	102.1	6.1
	30	102.3	11.5	86.9	10.8	84.2	11.2	101.2	10.5
C.I. 367	60	100.0	8.9	97.2	7.5	91.5	6.8	94.5	6.7
	300	106.2	6.1	105.9	6.8	106.4	7.5	94.8	5.8
	30	81.5	7.8	89.2	9.4	79.5	11.5	87.2	9.2
C.I. 368	60	94.5	4.5	97.5	8.7	94.2	6.8	94.5	6.7
	300	100.2	6.0	108.1	6.7	105.7	4.4	104.3	7.8
	30	95.6	9.1	105.2	10.3	97.2	8.9	104.5	8.9
C.I. 184	60	98.9	8.5	99.8	8.4	94.2	6.7	94.5	6.8
	300	106.7	3.9	100.2	7.5	105.7	6.4	103.9	3.5
Disperse red	30	89.5	10.8	87.5	10.8	85.6	9.7	87.2	8.9
11	60	92.5	6.5	94.2	8.4	94.1	6.1	99.7	6.4
	300	99.0	7.4	105.2	7.5	105.5	7.2	105.8	2.1
Disperse	30	106.5	11.6	98.2	7.8	100.8	10.7	104.3	5.9
yellow 39	60	98.2	6.7	89.7	6.1	96.5	8.2	94.8	6.7
	300	101.9	8.9	105.3	2.3	94.9	4.3	98.2	4.3
Disperse	30	89.6	6.7	79.8	7.8	76.8	5.6	78.2	8.4
orange 3	60	87.5	8.5	84.7	6.5	94.5	7.8	86.7	6.4
	300	96.7	2.6	91.8	7.1	105.7	4.1	94.5	5.7
Disperse	30	98.5	9.4	89.2	10.2	87.5	9.8	86.5	10.7
orange 11	60	100.7	7.1	97.8	6.8	94.5	8.7	98.2	6.7
	300	105.3	6.5	104.5	5.7	107.2	6.4	101.7	5.9
Disperse blue	30	99.4	7.9	94.5	9.8	89.2	8.7	95.5	8.9
102	60	98.5	6.9	102.3	6.7	84.5	6.4	104.7	7.0
	300	107.5	4.2	108.1	4.3	95.2	5.1	97.5	3.4
Disperse red	30	79.8	9.6	74.8	10.5	72.5	8.7	79.8	11.9
17	60	85.4	6.9	86.8	8.7	94.1	6.7	87.6	6.4
	300	99.1	3.3	97.4	6.9	96.3	2.4	97.5	3.2

Disperse bue 106	30	86.1	6.8	87.2	8.9	80.2	5.6	87.5	5.9
	60	88.9	7.2	98.2	6.7	94.5	9.4	94.5	7.8
	300	96.8	5.4	105.7	7.1	105.6	8.5	98.2	3.6
Disperse yellow 3	30	105.6	10.6	101.9	9.8	100.9	7.4	100.1	9.8
	60	97.9	9.8	99.9	6.7	105.2	10.2	98.2	6.7
	300	102.3	3.4	100.8	5.3	97.5	6.4	106.9	5.6
disperse red1	30	98.6	7.8	91.2	8.7	94.2	5.7	98.2	10.2
	60	105.3	6.5	95.8	5.6	98.2	8.7	94.8	3.6
	300	103.4	6.8	107.2	3.4	104.5	2.2	99.1	5.4
Disperse blue 124	30	96.8	11.8	98.2	10.6	94.5	6.3	98.5	9.4
	60	105.6	6.5	107.2	7.4	106.5	7.8	94.7	8.1
	300	103.2	7.4	94.2	5.6	98.2	5.1	104.7	5.6
Disperse orange37	30	94.5	10.6	90.9	8.7	94.5	10.9	102.5	10.7
	60	98.6	8.4	89.6	6.2	103.6	5.6	97.9	9.4
	300	100.2	2.5	94.8	7.5	102.9	4.9	103.4	6.1
Disperse yellow23	30	74.2	9.4	98.5	7.9	94.5	8.7	105.9	6.7
	60	89.2	4.5	102.4	6.4	98.9	6.4	97.5	8.2
	300	95.4	5.6	99.5	3.1	103.2	3.1	98.2	4.1