

附表 1 黄瓜基质中 182 种化合物的加标回收率
Table 1 Recoveries of the 182 spiked compounds in cucumber matrix

Compound	Spike level/ $\mu\text{g/kg}$					
	10		20		50	
	Min/%	Max/%	Min/%	Max/%	Min/%	Max/%
4,4'-DDT	71.6	81.8	80.6	100.7	70.8	91.9
Alachlor	70.3	91.4	84.2	94.6	74.5	77.2
Aldrin	79.3	88.6	74.5	73.7	72.1	79.0
Ametryn	78.1	83.7	74.4	81.9	78.9	86.5
Benalaxyl	70.5	83.3	72.9	83.5	70.5	75.9
Benfluralin	73.0	93.0	81.6	89.2	71.5	79.6
Benfuracarb	80.7	87.5	87.1	92.0	73.5	75.8
Bifenthrin	73.5	78.9	81.3	84.9	71.7	83.0
Bioresmethrin	70.4	88.4	79.0	95.1	85.6	98.5
Bromopropylate	70.6	88.2	73.9	77.8	72.6	87.6
Buprofezin	79.6	84.3	80.2	85.1	70.2	88.1
Butachlor	76.2	93.2	75.6	83.1	80.1	86.8
Butylate	72.0	81.5	92.5	103.4	70.4	95.4
Carboxin	73.9	81.6	86.0	90.7	80.8	98.2
Carfentrazone-ethyl	71.5	84.8	79.7	93.5	78.2	84.0
Chlordane	72.7	85.4	83.5	91.6	78.3	100.4
Chlorethoxyfos	77.0	95.1	74.7	88.3	75.1	84.4
Chlorfenapyr	73.0	81.9	82.1	96.2	70.3	85.4
Chlorpyrifos-ethyl	81.7	85.9	77.0	81.0	86.2	104.3
Chlorpyrifos-methyl	79.1	84.3	87.5	96.9	83.4	97.2
Chlorthal-dimethyl	74.0	85.1	74.1	73.9	72.1	84.6
Clodinafop-propargyl	75.1	83.2	76.3	86.6	74.8	82.5
Coumaphos	73.2	78.6	80.8	91.4	80.5	101.1
Cypermethrin	78.8	89.3	75.1	91.3	81.5	87.3
Cyproconazole	73.6	91.5	70.1	82.1	76.3	89.7
Cyprodinil	76.0	86.4	78.9	77.1	88.1	106.9
Diazinon	74.6	83.9	76.1	93.6	79.6	80.6
Dichlobenil	79.2	90.3	75.6	79.2	75.2	89.8
Dichlorvos	70.4	92.4	77.8	88.5	80.0	91.0
Diclofop-methyl	78.4	82.2	77.1	81.7	74.9	87.5
Dicofol	73.3	89.2	74.8	86.5	73.5	88.7
Dimethenamid-P	79.8	93.7	76.6	82.5	75.2	80.9
Dimethomorph	80.0	86.8	73.1	73.3	77.2	84.8
Diniconazole	83.7	105.5	78.3	78.1	75.5	80.8
Edifenphos	80.8	95.0	89.4	100.3	70.4	93.1
Endosulfan	79.2	82.7	82.3	86.9	84.8	96.8
Endrin	75.9	88.1	81.7	85.7	89.2	107.9
Esfenvalerate	70.6	92.8	78.9	93.5	76.3	79.7

Compound	Spike level/ $\mu\text{g/kg}$					
	10		20		50	
	Min/%	Max/%	Min/%	Max/%	Min/%	Max/%
Ethion	73.2	83.3	80.9	85.3	82.8	94.5
Etoxazole	79.2	80.3	78.5	92.2	83.2	93.9
Fenamidone	76.0	86.4	77.9	93.2	79.2	85.6
Fenamiphos	76.0	87.6	80.4	91.1	76.4	91.8
Fenarimol	79.5	103.0	84.9	95.1	74.0	95.4
Fenitrothion	78.5	101.2	79.5	86.2	70.5	86.8
Fenoxaprop-ethyl	81.6	106.3	74.6	97.5	79.9	97.4
Fenpropathrin	89.6	97.7	77.7	81.8	72.2	87.9
Fenpropimorph	71.0	75.7	80.7	91.4	80.2	90.0
Fenthion	75.1	79.2	72.1	82.0	78.9	82.7
Fipronil	76.9	75.8	75.3	82.2	77.8	83.0
Fluazifop-butyl	71.9	80.5	76.2	91.5	83.2	103.8
Flufenacet	76.5	79.8	71.5	82.5	81.0	87.5
Flusilazole	87.9	92.4	77.3	87.8	74.9	98.0
Flutolanil	81.8	91.0	76.4	91.0	74.9	79.2
Flutriafol	84.7	90.6	70.9	79.8	71.5	77.3
Fonofos	78.3	86.3	76.9	81.9	79.7	84.5
Heptachlor	79.0	92.8	79.8	89.3	76.4	81.9
Hexachlorobenzene	73.3	92.3	75.8	75.0	82.3	89.5
Imazalil	75.8	92.9	76.4	102.6	80.6	96.3
Imazamethabenz-methyl	83.2	95.0	73.7	79.5	73.5	94.2
Isocarbophos	81.6	90.3	75.5	94.0	72.1	81.1
Isoprocarb	75.8	96.1	73.8	81.9	86.4	97.6
Isoprothiolane	70.1	85.5	76.0	101.5	75.2	85.3
Kresoxim-methyl	75.7	75.8	75.6	89.6	77.0	90.4
Malathion	78.0	96.5	73.1	76.0	77.6	93.8
Mepronil	88.3	96.2	87.2	101.2	70.6	88.6
Metalaxyl	71.6	82.0	78.3	86.8	72.5	85.0
Methoprene	73.4	82.2	75.6	90.9	73.7	84.0
Metolachlor	75.0	89.4	73.5	90.4	78.2	98.7
Molinate	75.6	85.3	72.4	80.1	81.8	98.6
Myclobutanil	71.7	87.1	86.7	96.9	82.2	89.4
Napropamide	75.8	80.3	73.2	78.8	82.6	96.9
Nitrapyrin	76.1	91.2	72.7	81.4	82.6	89.4
Norflurazon	81.8	93.9	72.3	92.3	81.2	100.1
Oxadiazon	75.9	93.5	81.0	98.4	78.4	103.3
Paclobutrazol	77.7	86.9	76.5	96.9	72.3	98.8
Parathion-ethyl	76.5	89.7	82.4	95.3	72.5	73.6
Parathion-methyl	77.2	85.6	82.8	101.8	77.4	76.6
Penconazole	82.2	91.3	84.7	91.8	82.4	93.0

Compound	Spike level/µg/kg					
	10		20		50	
	Min/%	Max/%	Min/%	Max/%	Min/%	Max/%
Pendimethalin	72.4	71.9	70.2	88.5	75.0	90.0
<i>cis</i> -Permethrin,	72.9	73.5	76.6	79.6	80.3	86.4
<i>trans</i> -Permethrin	71.1	79.7	74.9	93.0	74.7	93.0
Phenthoate	72.9	87.0	73.0	83.6	78.6	90.0
Phorate	74.5	83.5	85.4	90.2	77.5	87.0
Phosalone	79.9	86.4	82.4	102.3	77.7	80.4
Piperonyl-butoxide	75.7	84.4	79.4	91.7	76.4	82.3
Pirimicarb	86.1	96.1	72.9	94.1	82.6	87.4
Pirimiphos-methyl	82.3	87.4	76.6	84.7	72.4	89.7
Pretilachlor	74.5	81.2	71.2	88.0	85.0	91.0
Prochloraz	72.1	92.4	72.6	83.1	75.3	85.4
Procymidone	71.1	89.2	73.3	81.5	76.5	87.8
Profenofos	76.1	83.0	83.8	88.9	78.3	97.6
Prometryne	78.8	82.2	71.1	75.3	72.0	84.5
Propiconazole	75.1	78.6	82.8	90.1	71.9	80.4
Prothiophos	72.1	83.7	77.2	93.5	81.0	92.0
Pyridaben	70.7	87.7	80.8	95.2	74.7	86.0
Pyrimethanil	73.4	85.1	75.5	79.8	83.1	91.8
Pyriproxyfen	80.7	91.7	79.8	109.0	75.5	92.8
Quinalphos	72.3	95.9	77.6	96.7	83.5	94.6
Quinoxypen	76.5	93.0	73.2	80.0	73.2	81.2
Quintozene	74.0	92.4	75.7	75.1	79.7	91.2
Quinalofop-ethyl	79.4	89.8	79.1	95.6	74.1	87.2
Spirodiclofen	83.0	95.3	77.4	91.3	75.5	89.8
Spiromesifen	78.3	100.3	81.3	91.6	77.4	94.1
Tebuconazole	71.3	85.6	81.8	100.2	76.4	85.8
Tecnazene	77.6	91.3	79.3	91.2	72.6	90.7
Tefluthrin	78.3	89.5	71.1	79.4	78.4	92.2
Triadimefon	81.0	90.0	73.8	79.0	83.0	88.3
Triadimenol	82.5	89.6	79.4	87.5	72.4	77.9
Triazophos	72.8	88.5	73.0	83.0	88.6	113.8
Tribuphos	78.9	87.0	95.1	103.2	74.4	71.8
Trifloxystrobin	76.8	85.2	79.7	94.7	75.6	92.9
Uniconazole	80.2	92.0	75.6	99.8	78.7	86.8
Vinclozolin	79.2	85.0	89.8	102.2	80.1	88.8
Lindane	83.6	98.9	78.2	92.5	84.7	97.0

续附表 1 黄瓜基质中 182 种化合物的加标回收率
Table 1 Recoveries of the 182 spiked compounds in cucumber matrix

Compound	Spike level/ $\mu\text{g/kg}$					
	20		50		100	
	Min/%	Max/%	Min/%	Max/%	Min/%	Max/%
Acibenzolar-S-methyl	72.9	79.8	81.8	89.5	76.4	87.1
Atrazine	71.6	79.7	73.6	82.4	79.1	87.3
Azoxystrobin	72.2	80.1	72.3	86.1	88.6	105.5
Bitertanol	83.2	88.2	74.6	79.0	76.0	86.9
Boscalid	70.9	84.8	76.6	88.5	78.1	83.9
Bromacil	72.9	78.3	76.1	88.5	77.1	82.5
Butafenacil	77.1	84.7	86.1	95.3	78.0	88.3
Cadusafos	71.1	87.6	74.5	85.1	86.6	95.0
Carbofuran	72.6	84.6	73.1	90.8	76.9	87.1
Chlorothalonil	85.0	90.7	70.6	82.6	73.2	83.6
Clomazone	73.1	82.3	70.3	86.4	88.3	100.7
Cycloate	76.8	87.2	71.7	79.2	71.0	91.4
Cyhalothrin	85.7	96.4	90.3	99.5	79.9	85.1
Deltamethrin	77.9	93.8	90.2	103.5	70.1	90.0
Dicloran	79.3	87.4	70.3	87.6	75.6	80.9
Diphenylamine	76.7	88.7	75.4	85.1	73.7	93.6
Ethalfluralin	75.5	85.0	74.7	95.1	71.9	88.4
Ethoprophos	74.6	89.8	73.6	80.8	91.5	73.7
Fenobucarb	71.0	81.0	76.3	92.3	102.0	80.8
Fenvalerate	75.5	83.3	73.8	83.0	94.3	76.7
Flucythrinate	71.6	78.2	75.0	97.0	83.6	87.7
Fludioxonil	89.7	95.2	73.5	91.0	99.6	77.9
Flumiclorac-pentyl	75.6	88.0	73.2	92.2	71.0	87.4
Flumioxazin	72.8	91.0	77.6	102.6	71.5	89.7
Fosthiazate	74.3	91.5	79.8	97.5	73.9	89.0
Hymexazol	71.6	91.8	73.6	102.6	73.0	94.0
Ipconazole	73.3	93.9	76.5	98.4	79.4	94.6
Linuron	70.8	95.4	79.2	102.9	76.4	99.0
Mercaptodimethur	83.2	96.0	80.8	106.4	86.2	109.4
Metconazole	80.5	106.9	80.2	106.6	88.6	104.4
Methidathion	88.0	106.0	84.4	106.1	88.0	114.3
Metrafenone	70.2	102.8	70.4	88.0	81.4	106.6
Metribuzin	76.7	93.9	70.4	87.1	86.3	105.2
Monocrotophos	79.8	100.3	74.0	88.6	90.7	105.0
Oxyfluorfen	70.4	97.0	70.6	91.2	83.0	102.2
Propachlor	70.3	93.9	76.4	92.1	87.9	112.5
Propanil	79.9	98.5	77.0	98.2	89.5	106.9
Propargit	72.2	93.6	76.0	98.0	73.2	95.4

Compound	Spike level/ $\mu\text{g/kg}$					
	20		50		100	
	Min/%	Max/%	Min/%	Max/%	Min/%	Max/%
Propazine	77.8	105.2	75.0	97.6	77.5	91.7
Simazine	83.4	106.6	78.2	98.4	74.7	94.1
Spirooxamine	76.4	94.2	70.2	90.0	73.6	92.0
τ -Fluvalinate	77.7	106.6	70.0	87.1	77.6	95.8
TCMTB	84.4	105.9	70.6	87.7	76.4	96.1
Terbufos	73.0	100.8	73.0	96.0	73.2	94.0
Tetraconazole	83.6	106.1	74.0	97.6	71.6	96.6
Tolclofos-methyl	85.2	107.3	75.4	93.2	75.7	98.3
Tolyfluanid	80.8	96.0	76.0	100.0	80.0	93.2
Triticonazole	77.7	107.7	85.4	104.3	77.1	96.3
Zoxamide	85.9	106.5	87.6	103.4	78.6	96.9

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Table 1 Recoveries of the 182 spiked compounds in cucumber matrix

Compound	Spike level/ $\mu\text{g/kg}$					
	50		100		200	
	Min/%	Max/%	Min/%	Max/%	Min/%	Max/%
Acetamiprid	85.1	92.7	81.5	96.5	73.8	86.2
Captan	75.3	83.7	72.0	89.8	87.6	93.9
Carbaryl	72.6	91.5	74.9	79.3	76.2	101.8
Cyfluthrin	79.1	82.6	75.6	76.6	72.2	88.3
Dimethipin	75.4	82.9	73.6	84.9	72.2	81.9
Dimethoate	74.7	86.9	73.2	76.5	80.2	91.3
Etofenprox	74.9	88.7	70.2	80.4	78.1	91.2
Fenhexamid	79.8	89.0	76.4	85.9	75.9	82.6
Fluazifop-p-butyl	75.5	90.4	72.4	83.5	76.2	81.3
Folpet	73.4	92.8	73.4	80.4	79.2	87.9
Phosmet	83.6	91.6	74.9	81.6	94.9	105.2
Thiabendazole	83.9	95.4	77.4	82.5	75.0	85.8
Trifluralin	87.7	98.3	84.8	106.3	70.8	94.1

续附表 1 黄瓜基质中 182 种化合物的添加回收率数据

Table 1 Recoveries of 182 compounds in cucumber

Compound	Spike level/ $\mu\text{g/kg}$					
	100		200		500	
	Min/%	Max/%	Min/%	Max/%	Min/%	Max/%
2-Phenylphenol	77.7	92.5	82.1	101.7	92.8	93.7
Acephate	83.4	89.7	86.1	97.3	83.2	91.3
Difenoconazole	71.0	74.6	77.9	85.9	71.1	83.1
Famoxadone	79.2	102.1	75.7	100.0	74.3	83.0
Methamidophos	77.7	81.4	76.5	107.6	74.0	88.5
Tricyclazole	75.1	80.5	78.5	90.7	75.1	89.3