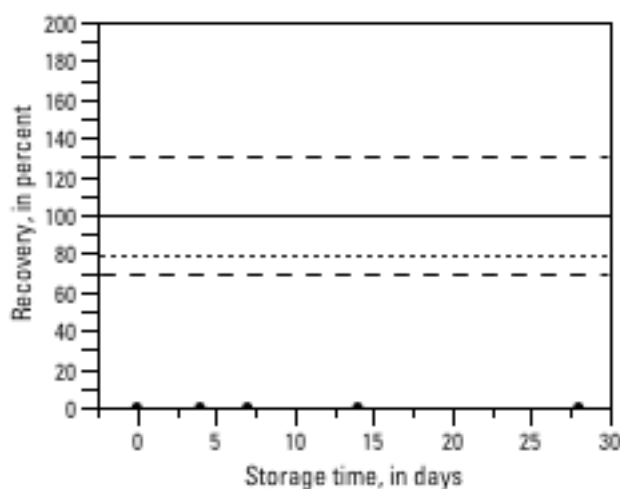


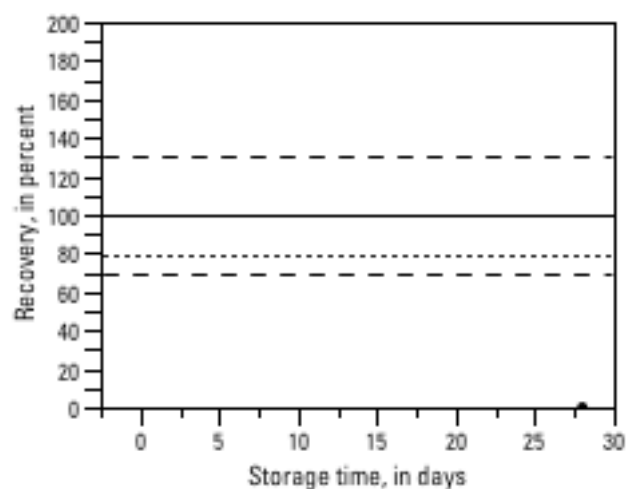
Supporting Figure S14. Stability of Degradates in Reagent Water—LC-MS/MS Negative ESI Analytes

Pesticide degradates found in reagent water fortified with pesticides after storage for as many as 28 days with different treatments (none, 4 °C [degrees Celsius]; none, -10 °C; citric acid pH 3.8, 4 °C; ascorbic acid, 4 °C) determined by direct aqueous-injection liquid chromatography-tandem mass spectrometry (LC-MS/MS) in negative electrospray ionization (ESI-) mode. Dashed lines show study quality control objectives of 100 ± 30 percent recovery. Dotted line shows lower tolerable range for holding time based on standard deviation of continuing calibration verification (CCV) standards ($n=28$) analyzed with stability samples (ASTM, 2008). (cis-Cyhalothric acid and chlorosulfanamide acid were in the pesticide spike mix for this experiment.)

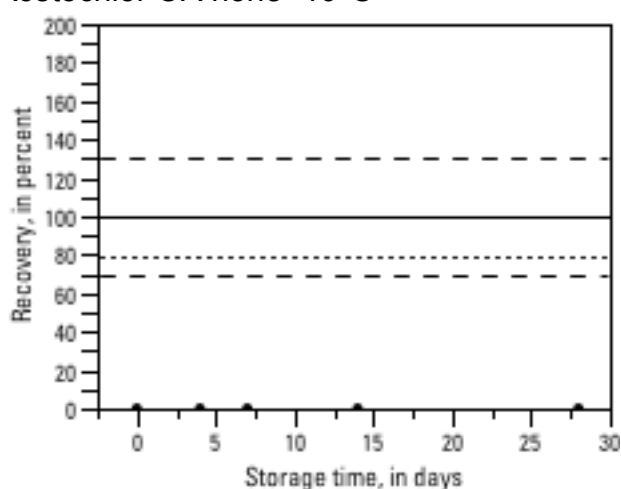
Acetochlor OA none 4°C



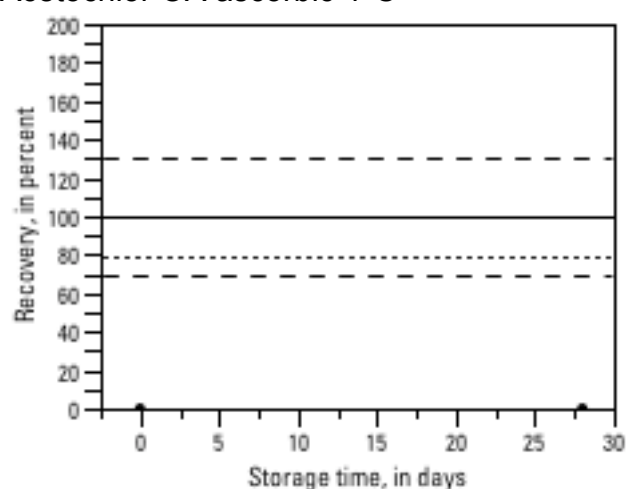
Acetochlor OA citric 4°C



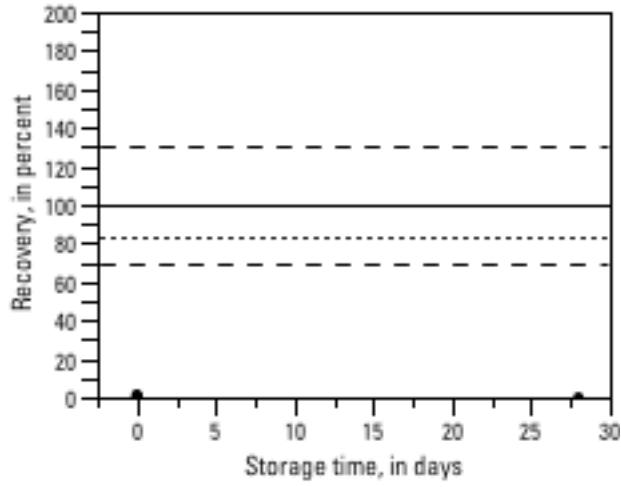
Acetochlor OA none -10°C



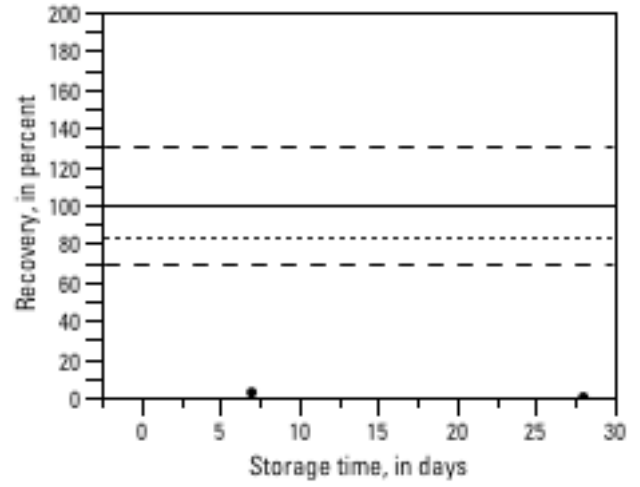
Acetochlor OA ascorbic 4°C



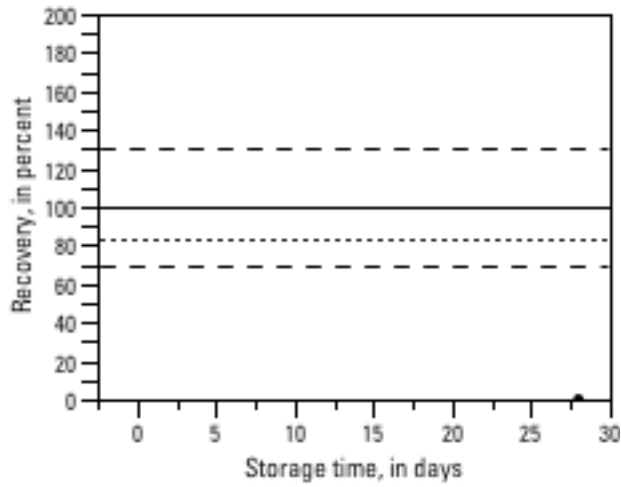
Acetochlor SA none 4°C



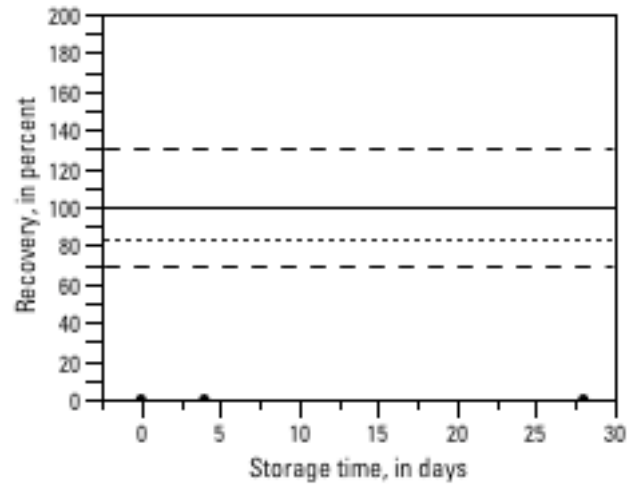
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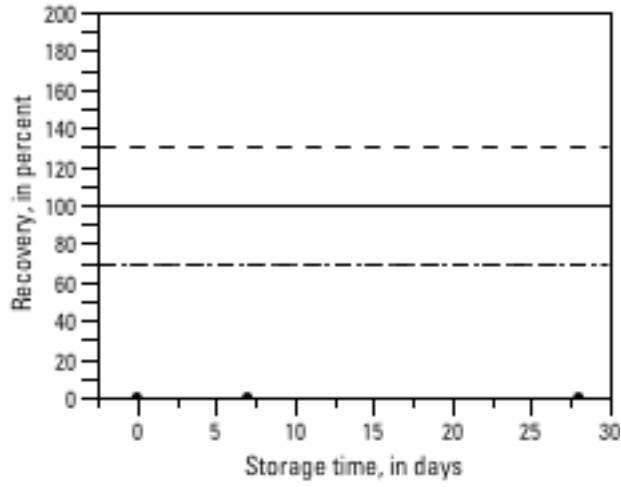
Acetochlor SA none -10°C



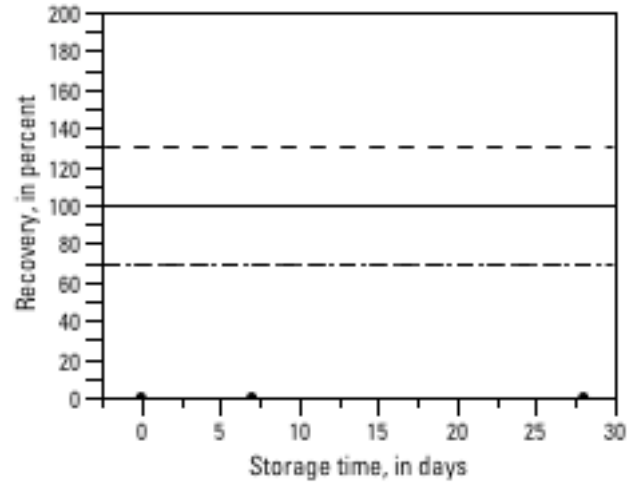
Acetochlor SA ascorbic 4°C



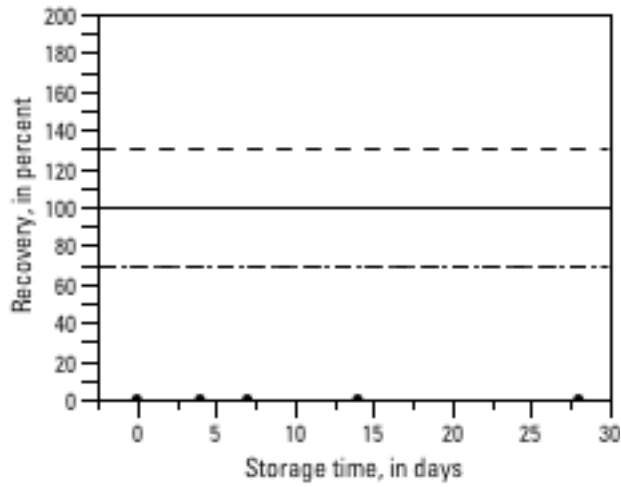
Acetochlor SAA none 4°C



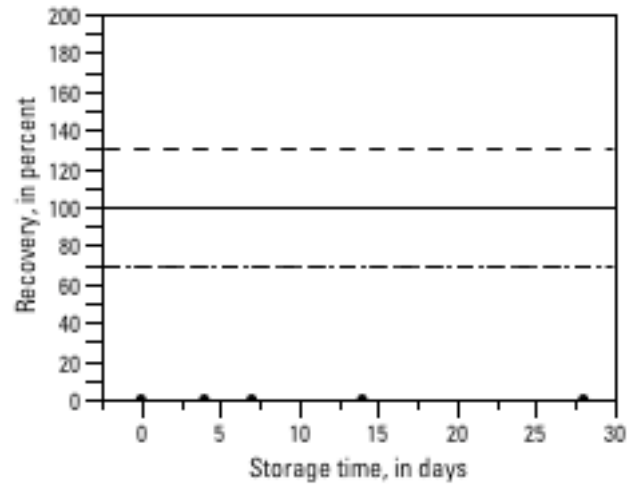
Acetochlor SAA citric 4°C



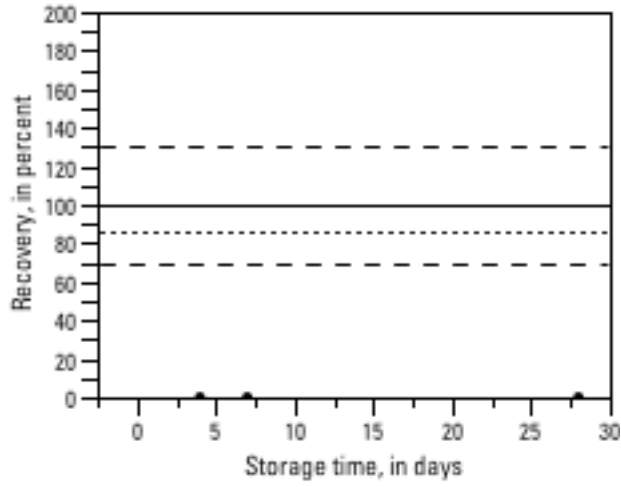
Acetochlor SAA none -10°C



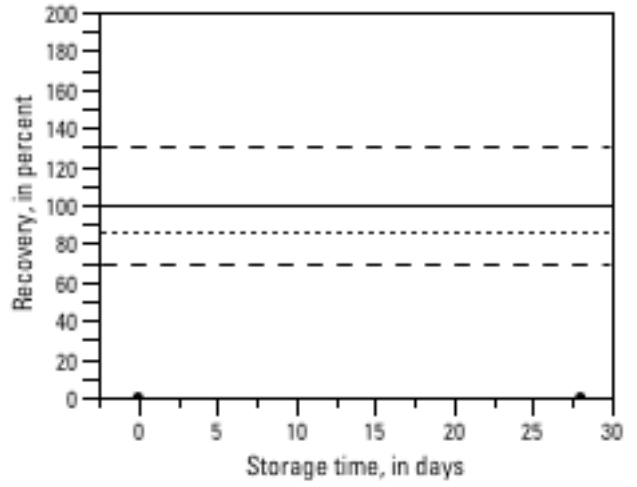
Acetochlor SAA ascorbic 4°C



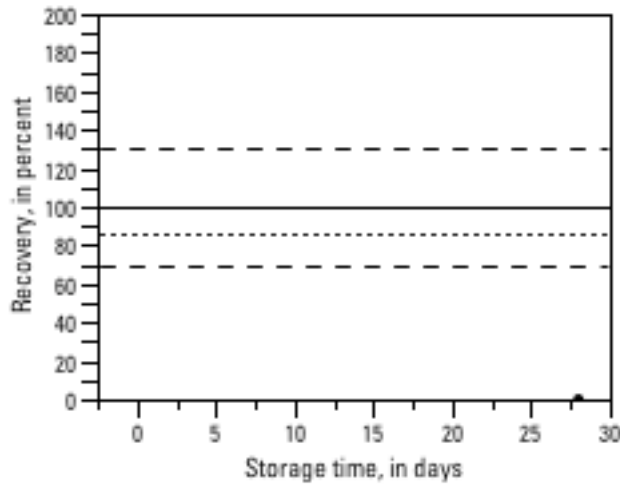
sec-Aceto chlor-OA none 4°C



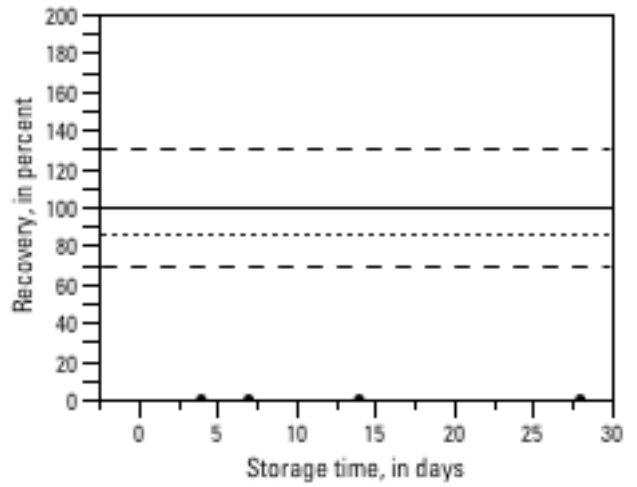
sec-Aceto chlor-OA citric 4°C



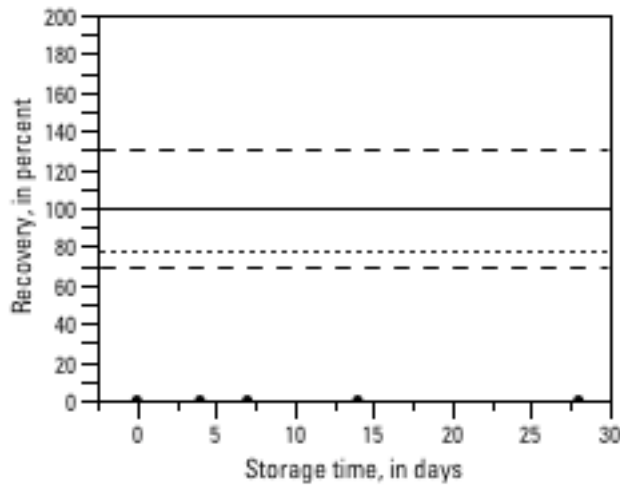
sec-Aceto chlor-OA none -10°C



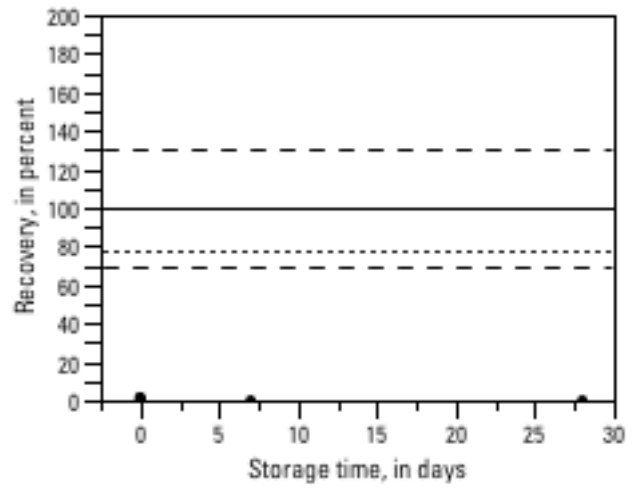
sec-Aceto chlor-OA ascorbic 4°C



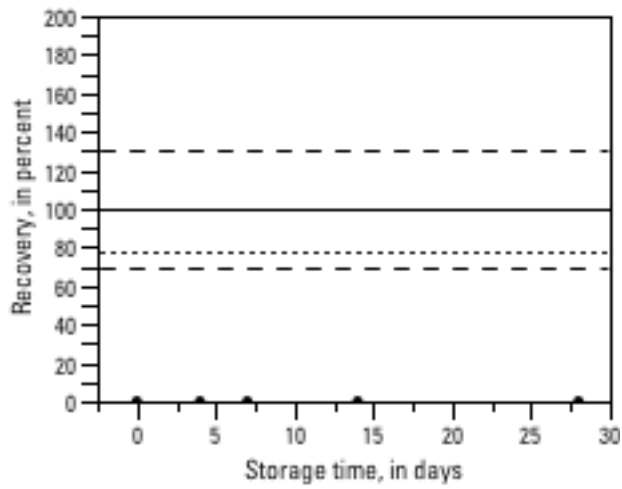
Alachlor OA none 4°C



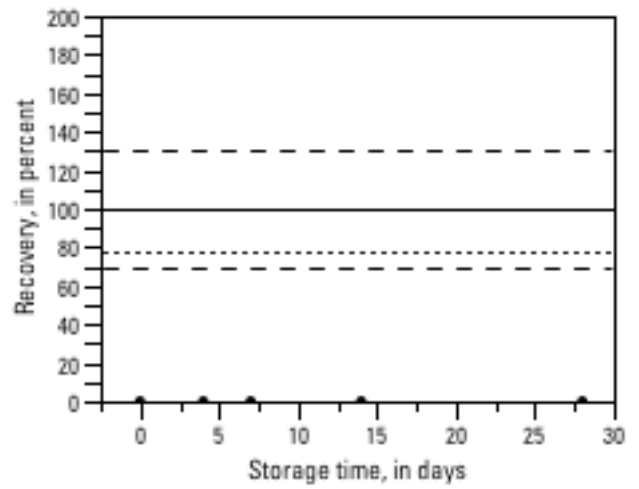
Alachlor OA citric 4°C



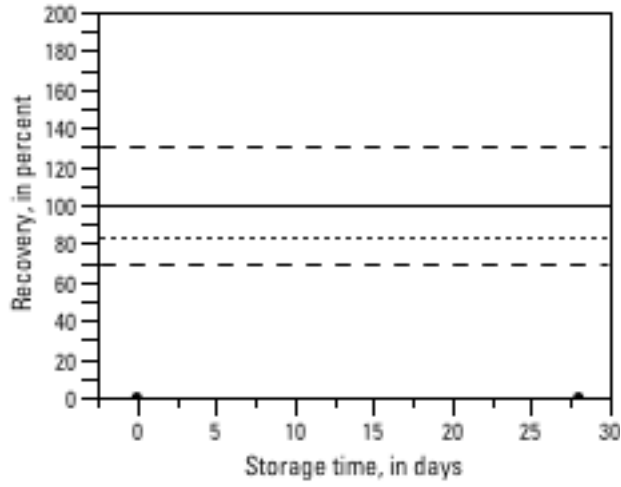
Alachlor OA none -10°C



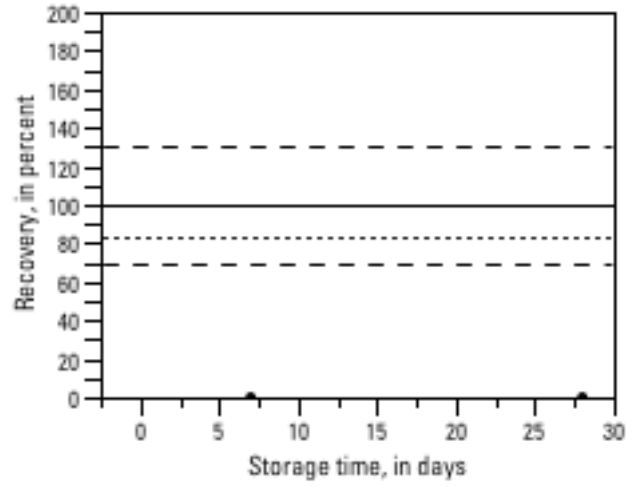
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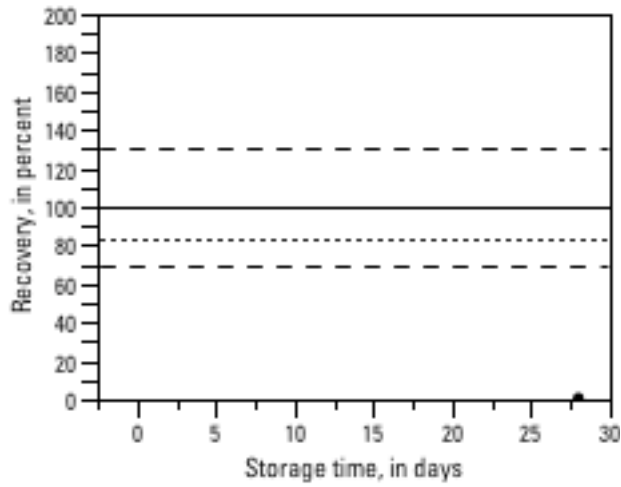
Aalachlor SA none 4°C



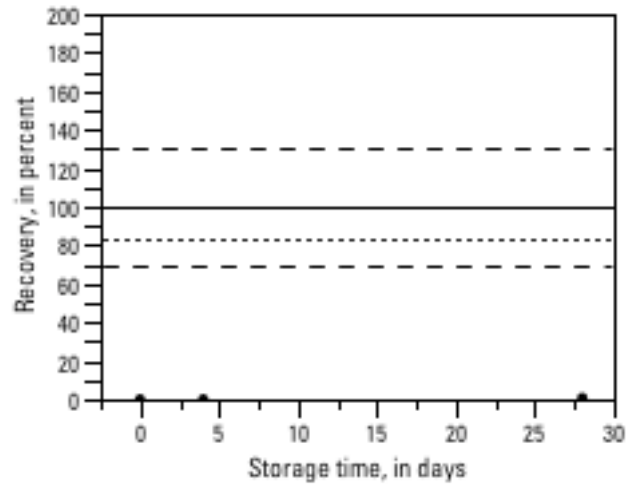
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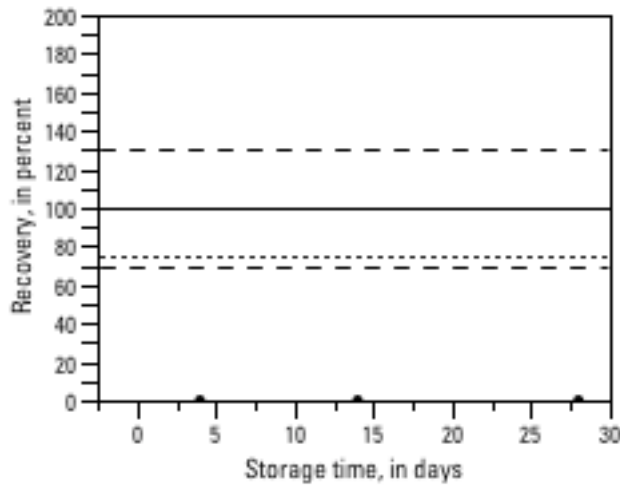
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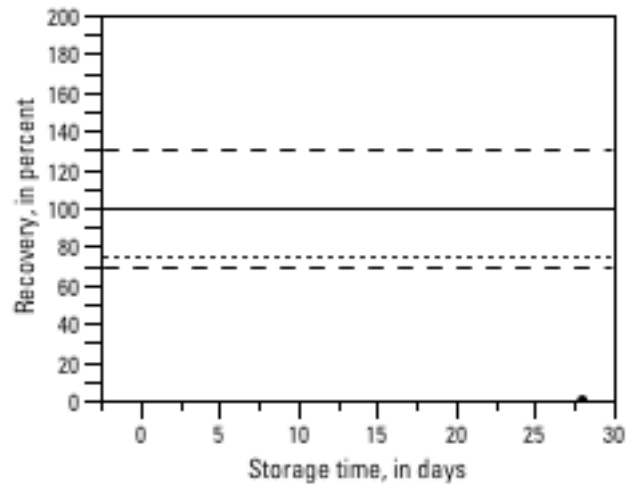
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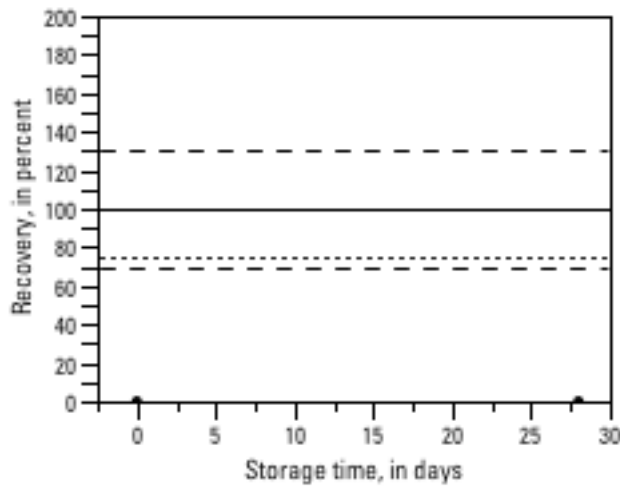
Alachlor SAA none 4°C



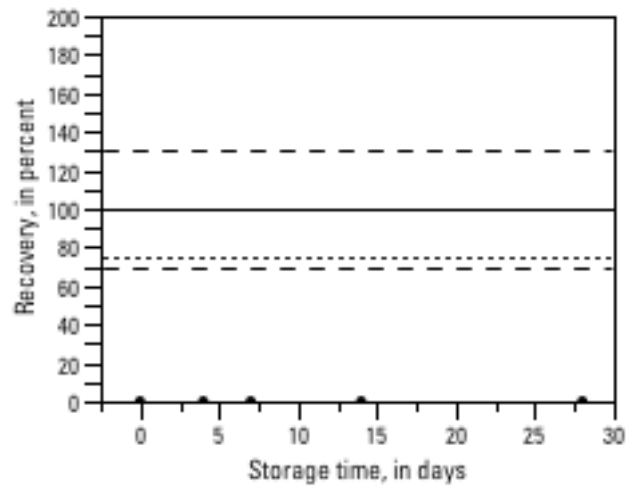
Alachlor SAA citric 4°C



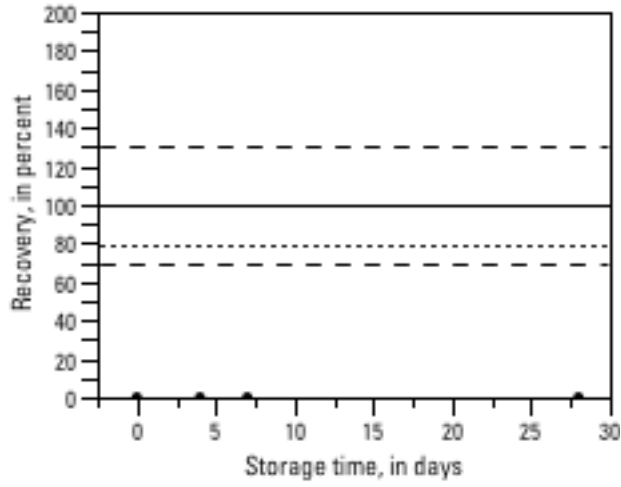
Alachlor SAA none -10°C



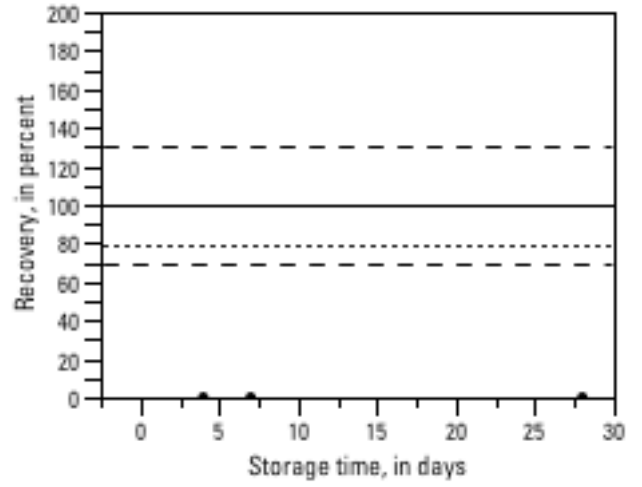
Alachlor SAA ascorbic 4°C



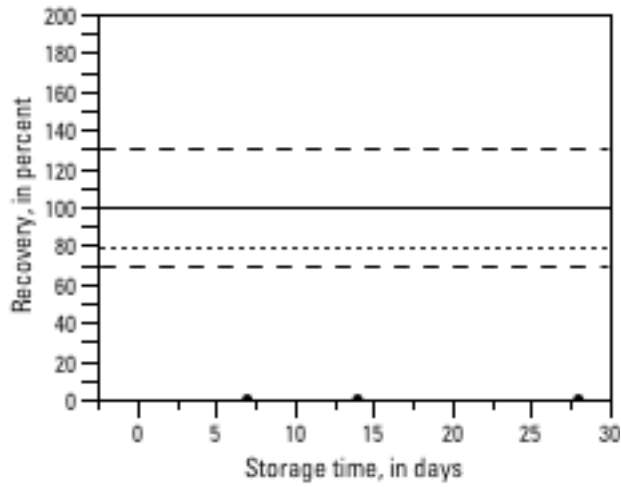
sec-Alachlor-OA none 4°C



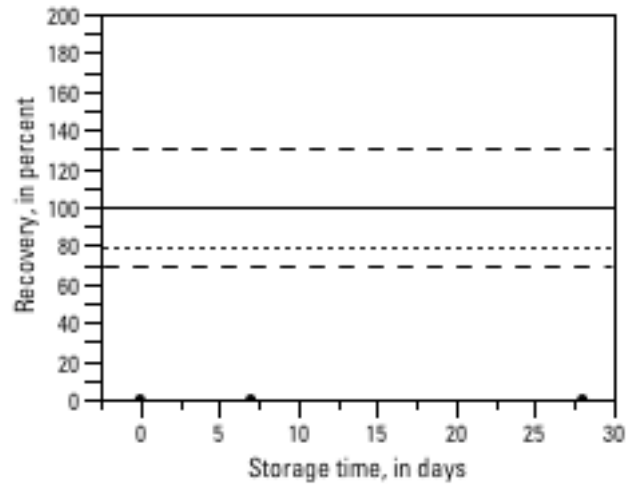
sec-Alachlor-OA citric 4°C



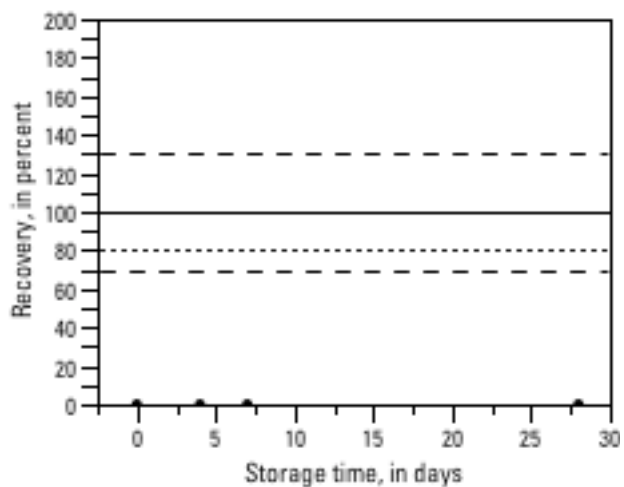
sec-Alachlor-OA none -10°C



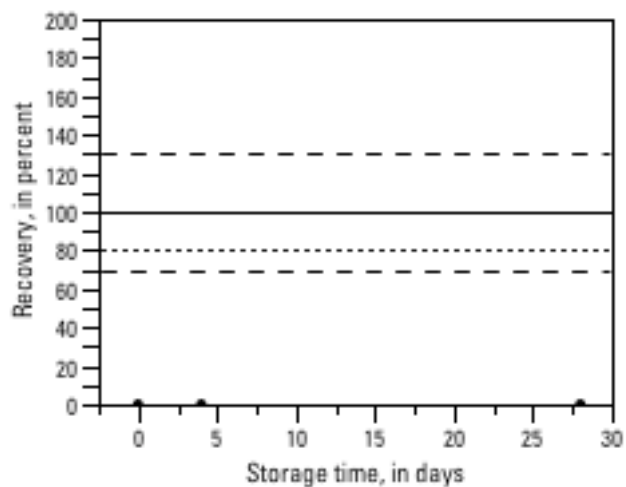
sec-Alachlor-OA ascorbic 4°C



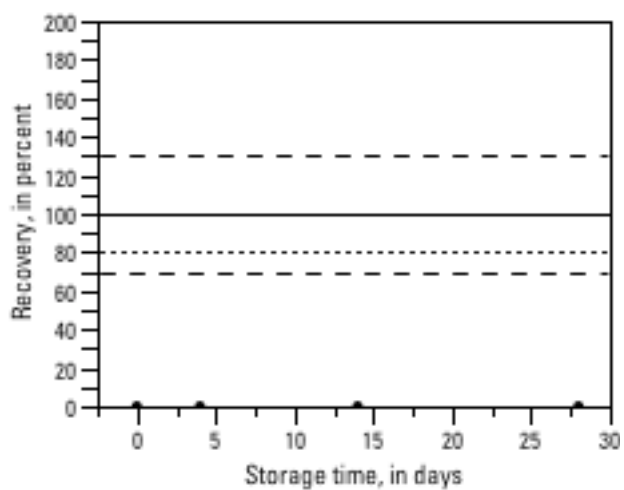
Dimethenamid OA none 4°C



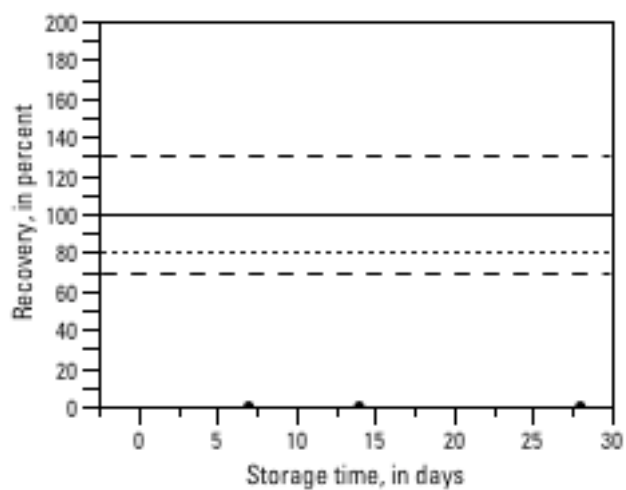
Dimethenamid OA citric 4°C



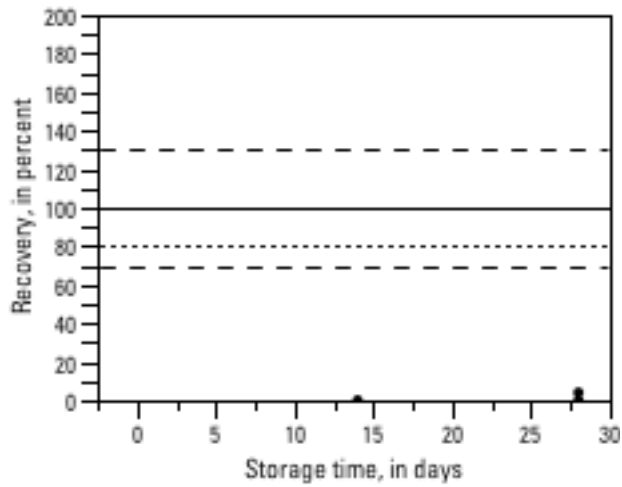
Dimethenamid OA none -10°C



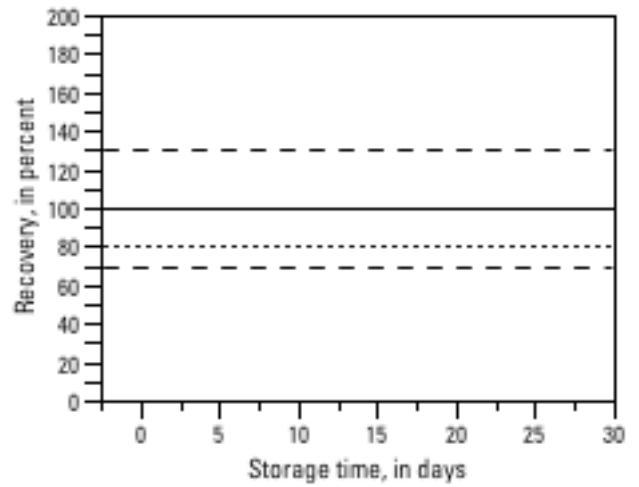
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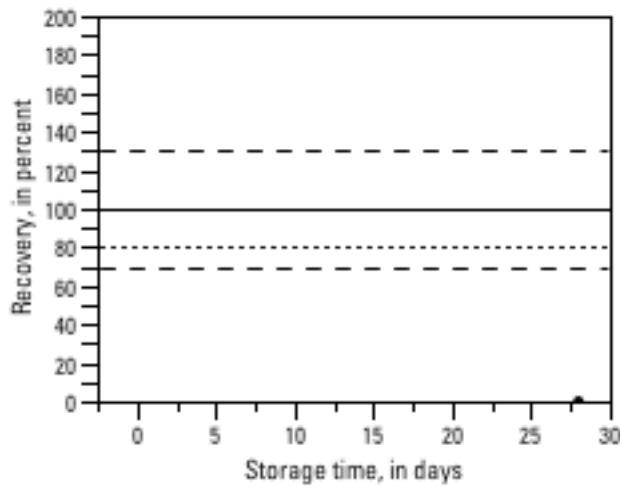
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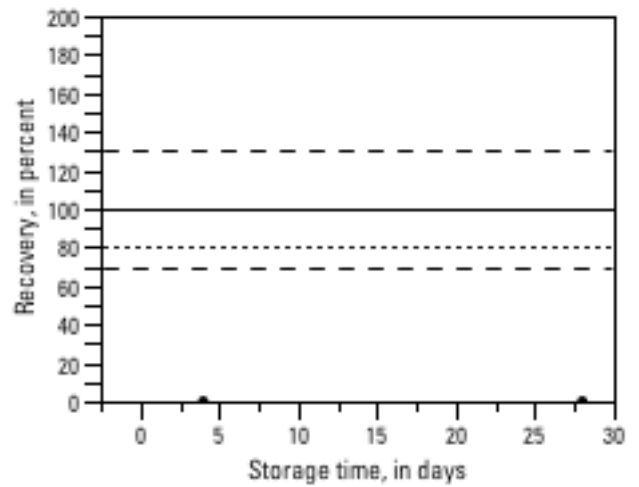
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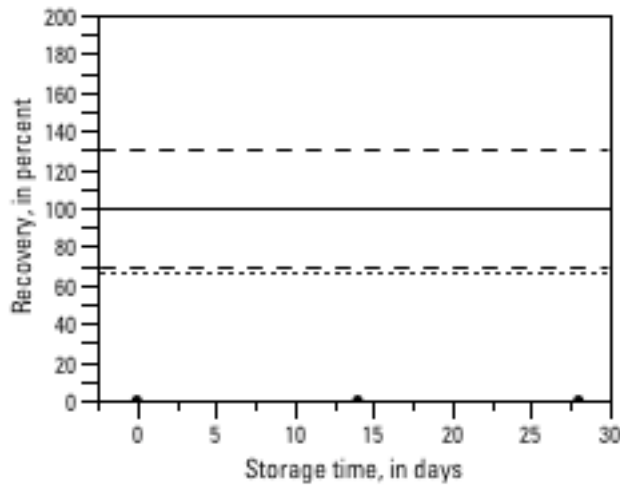
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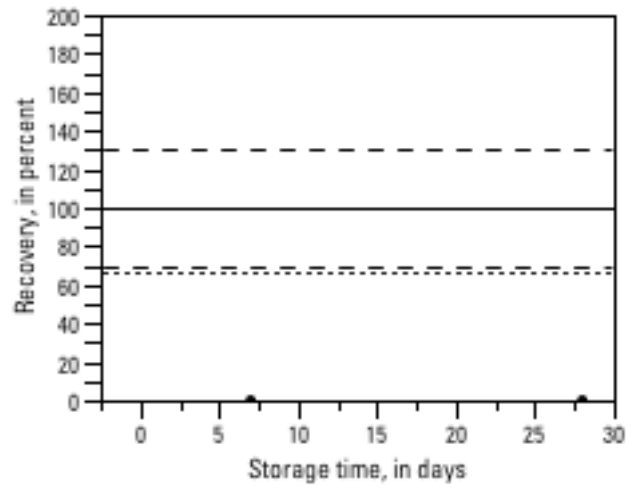
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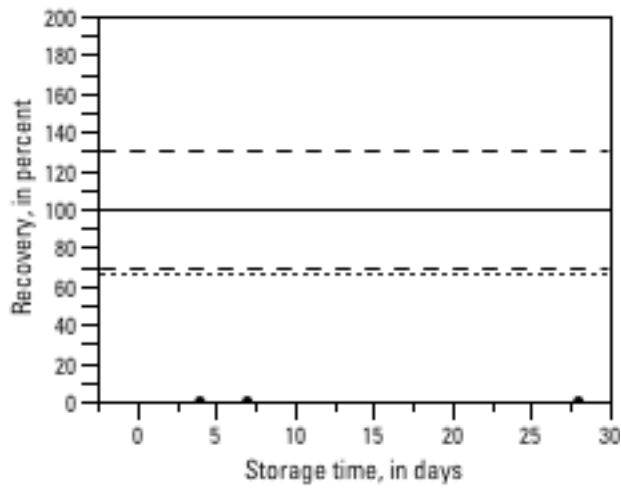
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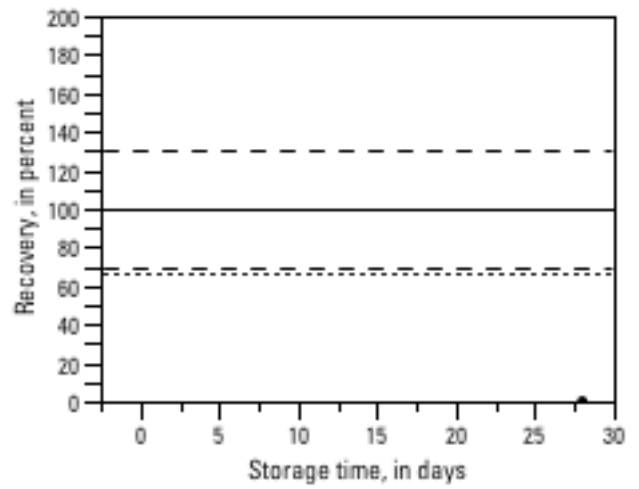
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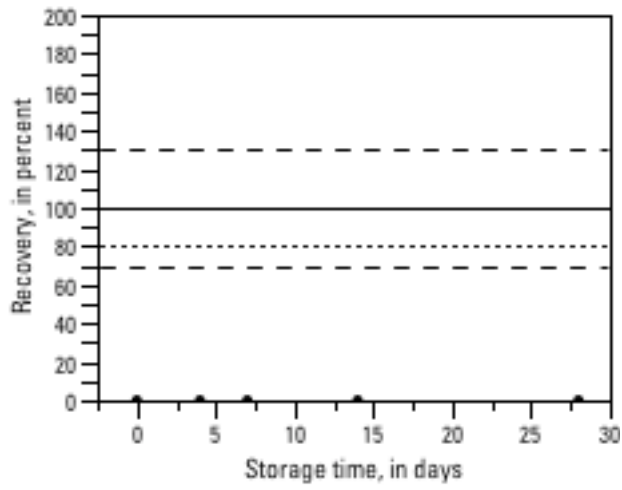
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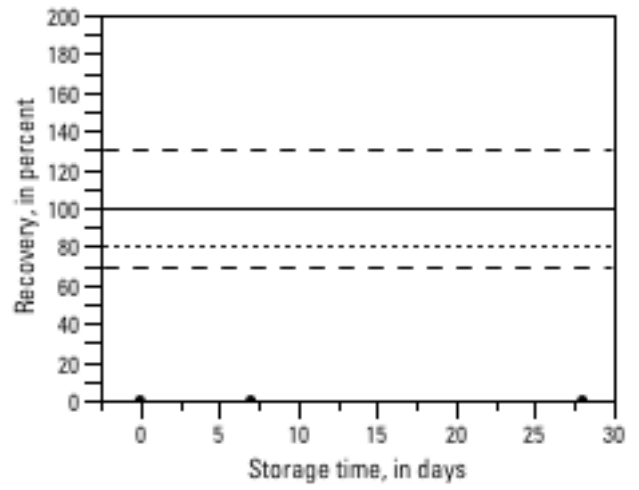
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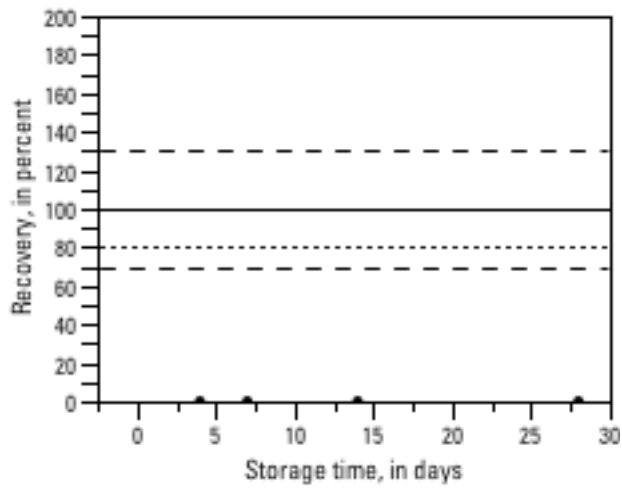
Metolachlor OA none 4°C



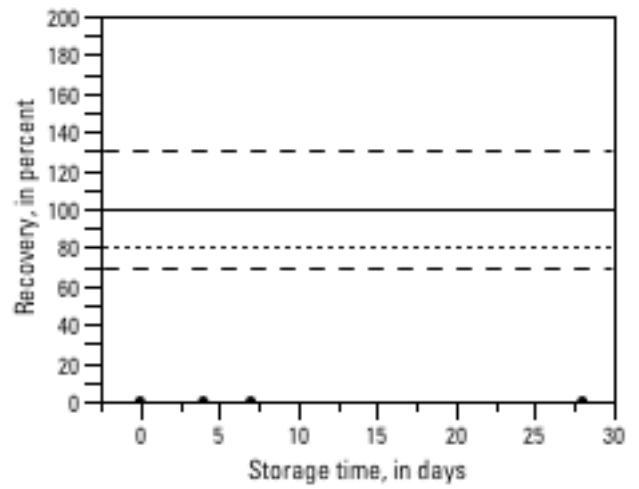
Metolachlor OA citric 4°C



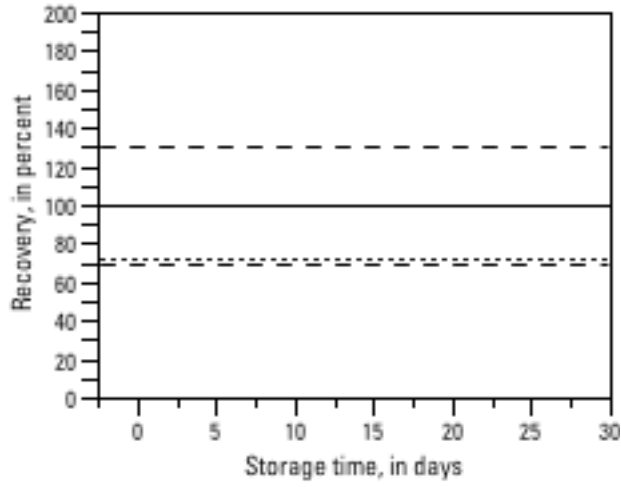
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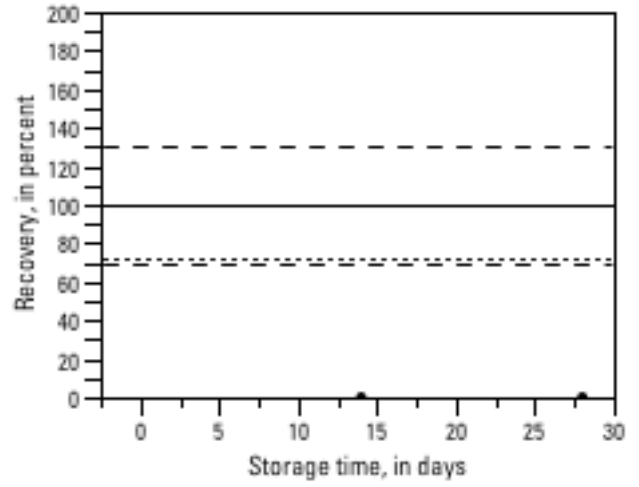
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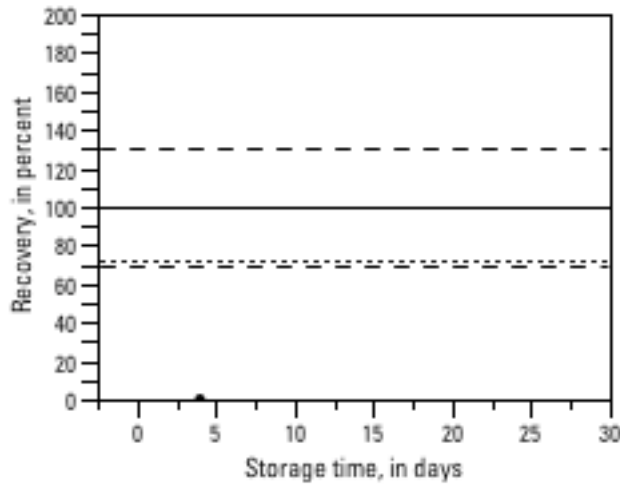
Metolachlor SA none 4°C



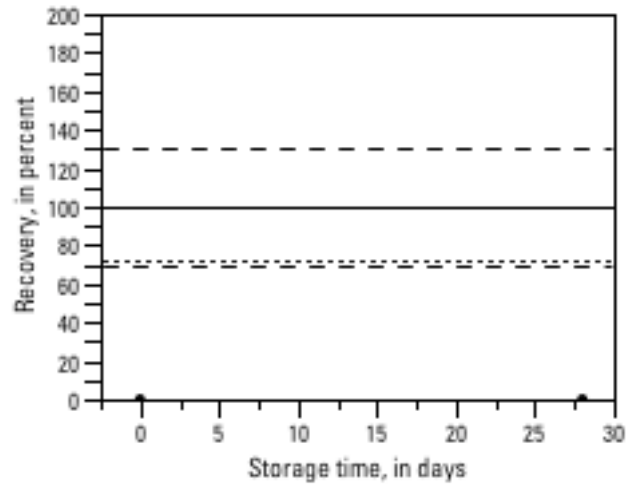
Metolachlor SA citric 4°C



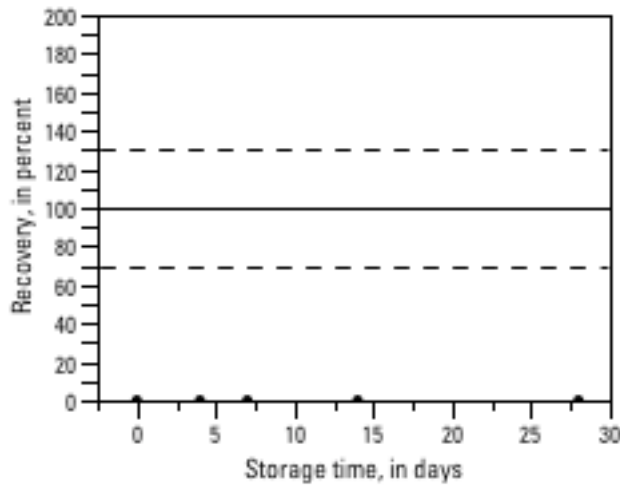
Metolachlor SA none -10°C



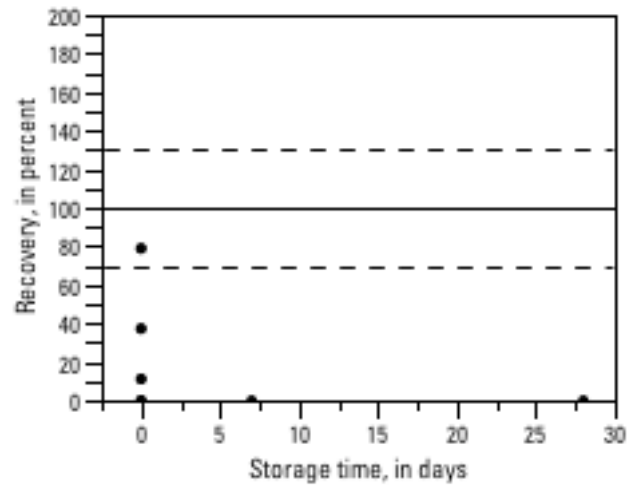
Metolachlor SA ascorbic 4°C



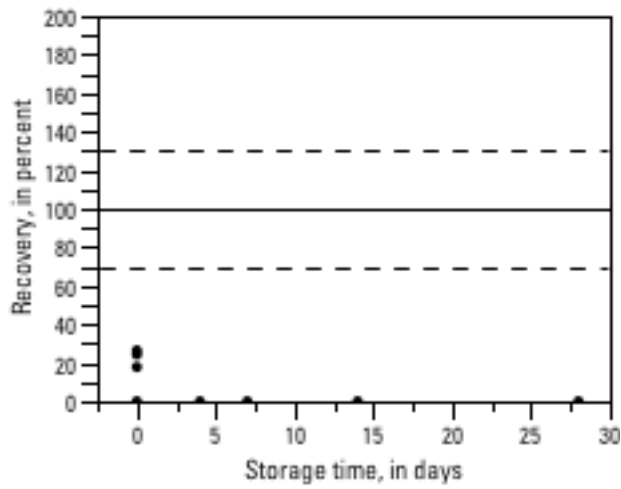
Dacthal monoacid none 4°C



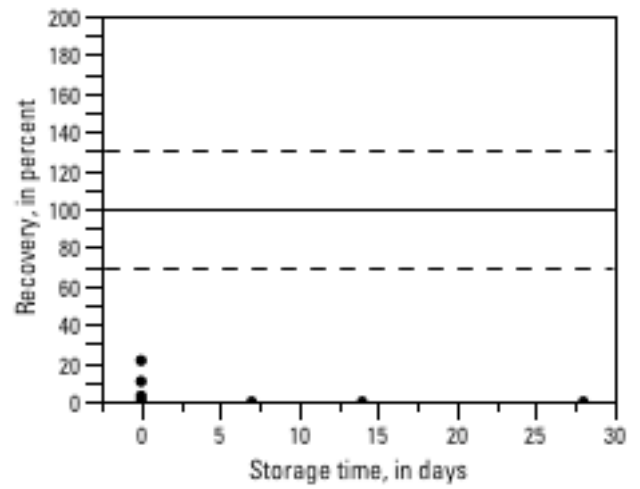
Dacthal monoacid citric 4°C



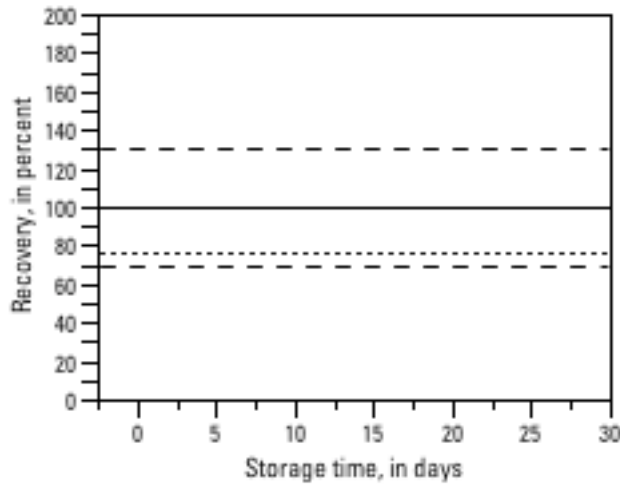
Dacthal monoacid none -10°C



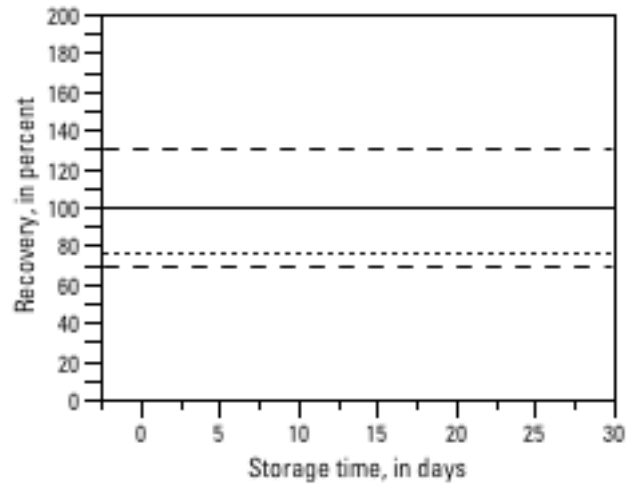
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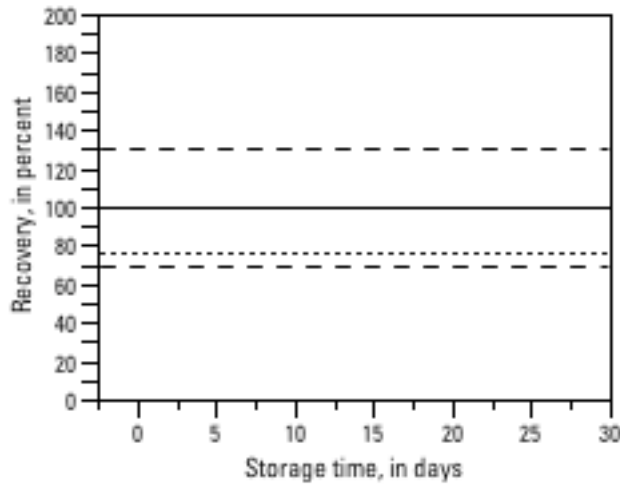
2,3,3-trichloroprop-2-ene-1-SA none
4°C



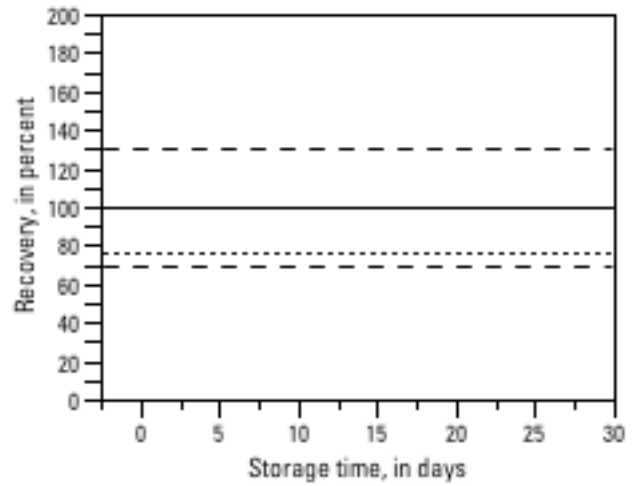
2,3,3-trichloroprop-2-ene-1-SA citric 4°C



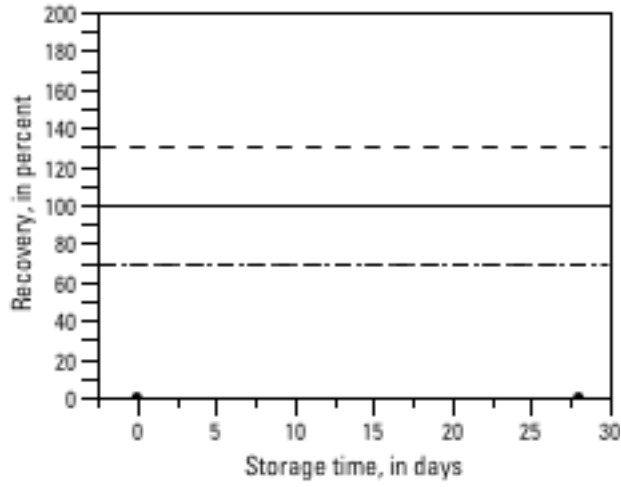
2,3,3-trichloroprop-2-ene-1-SA none -
10°C



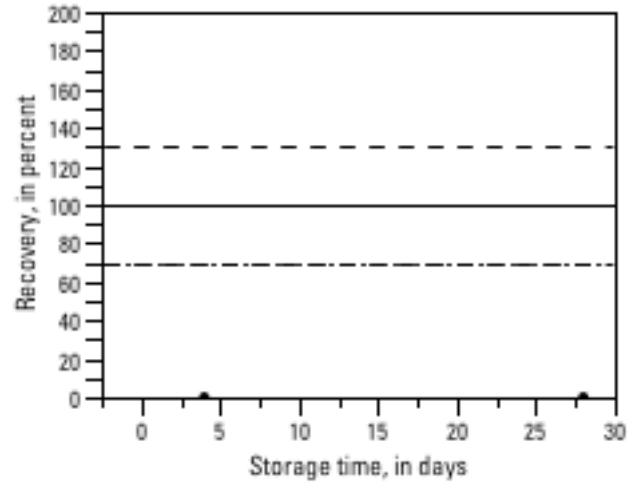
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4°C



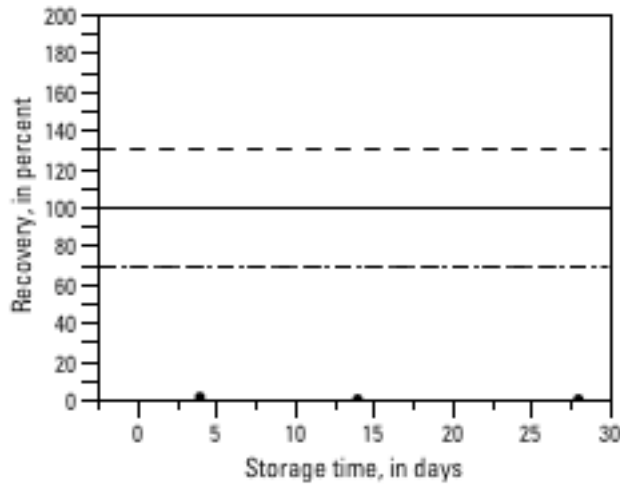
4-Hydroxychlorothalonil none 4°C



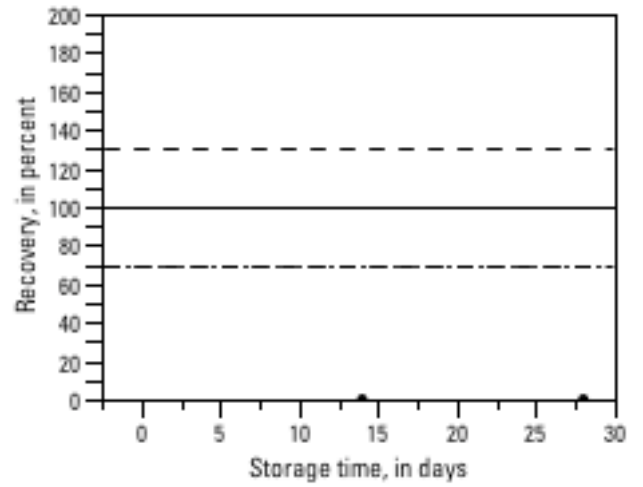
4-Hydroxychlorothalonil citric 4°C



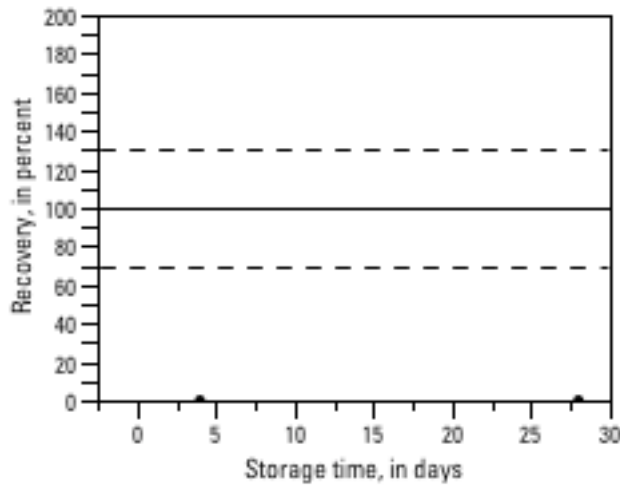
4-Hydroxychlorothalonil none -10°C



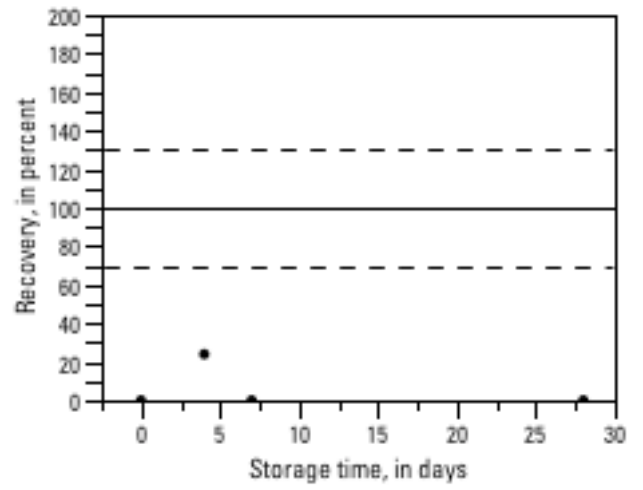
4-Hydroxychlorothalonil ascorbic 4°C



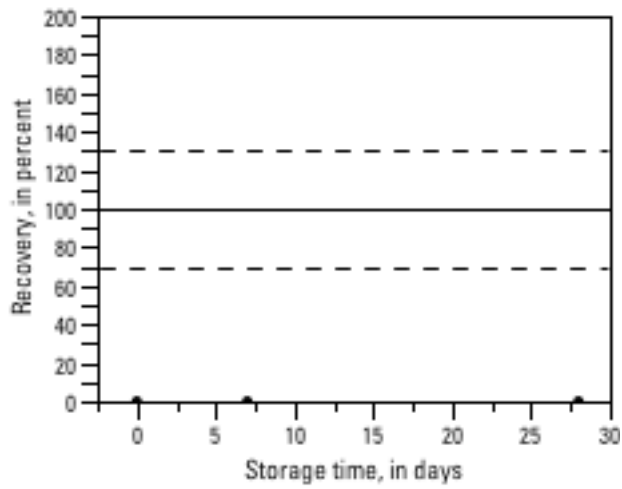
Deisopropylprodione none 4°C



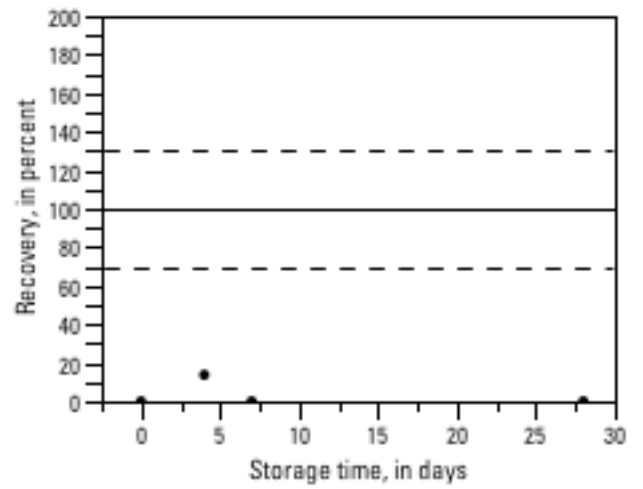
Deisopropylprodione citric 4°C



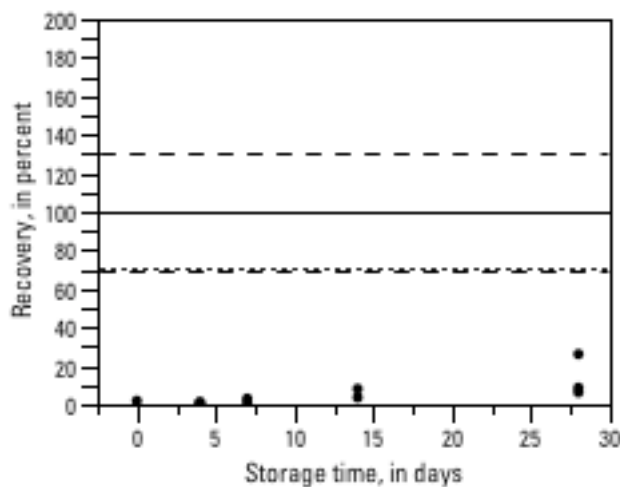
Deisopropylprodione none -10°C



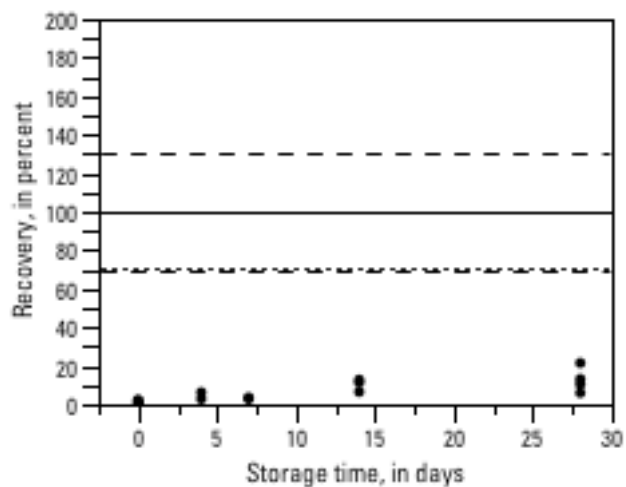
Deisopropylprodione ascorbic 4°C



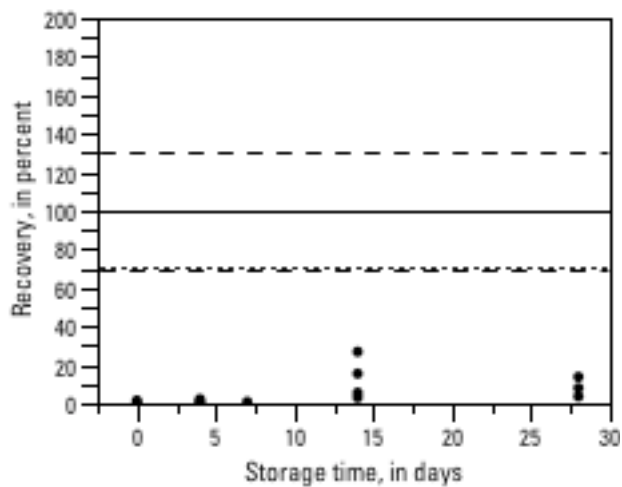
Diketonitrile isoxaflutole none 4°C



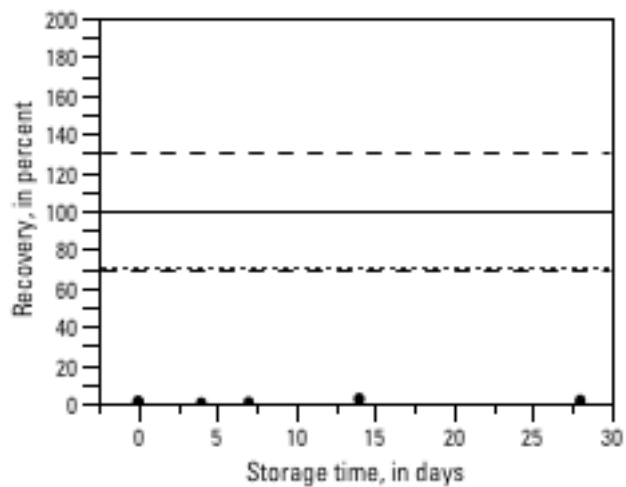
Diketonitrile isoxaflutole citric 4°C



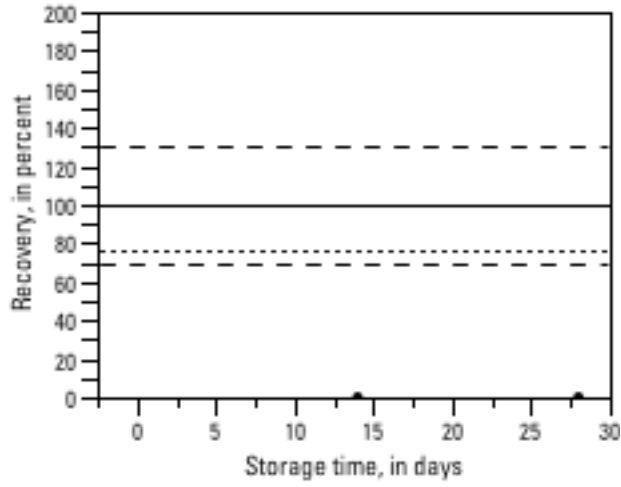
Diketonitrile isoxaflutole none -10°C



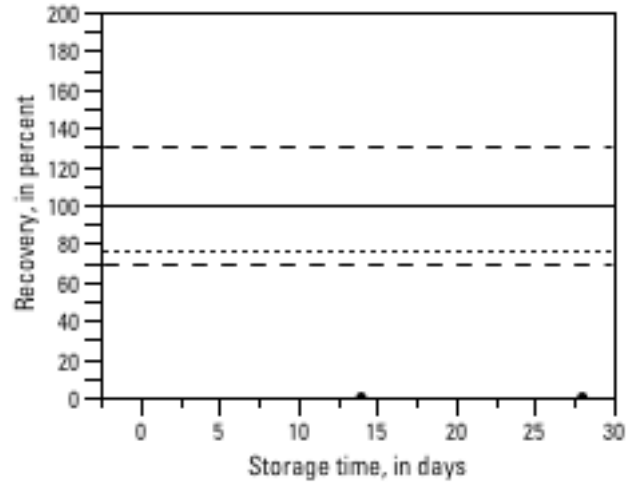
Diketonitrile isoxaflutole ascorbic 4°C



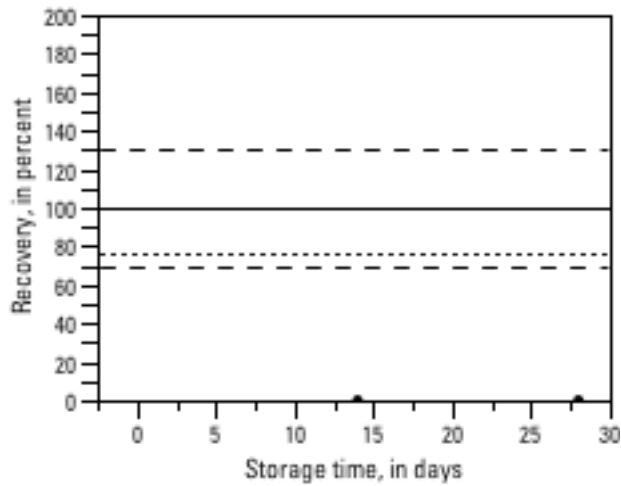
Isoxaflutole acid RPA 203328 none 4°C



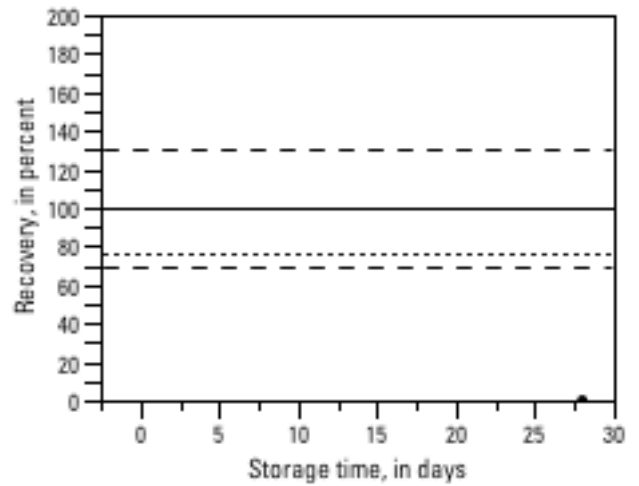
Isoxaflutole acid RPA 203328 citric 4°C



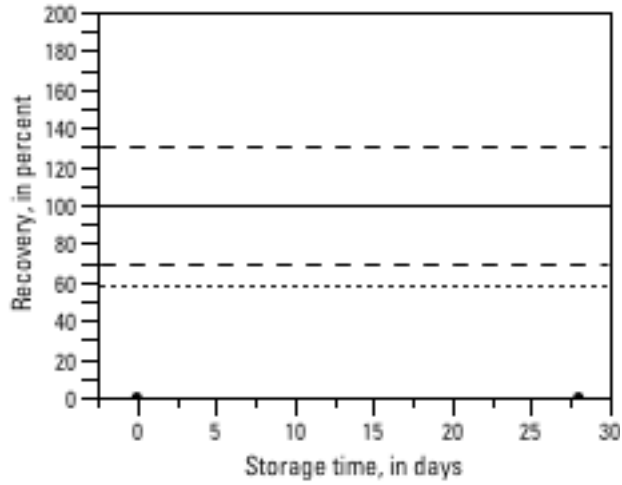
Isoxaflutole acid RPA 203328 none - 10°C



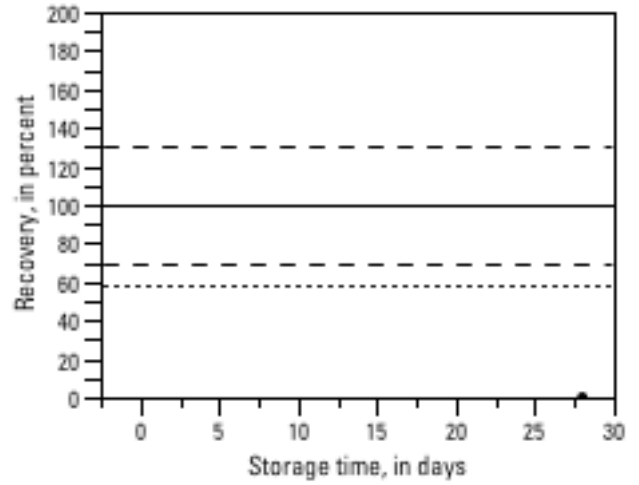
Isoxaflutole acid RPA 203328 ascorbic 4°C



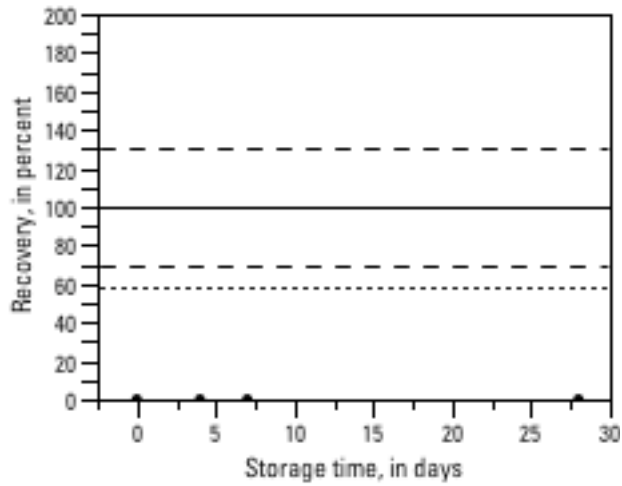
4-(Hydroxymethyl)pendimethalin none
4°C



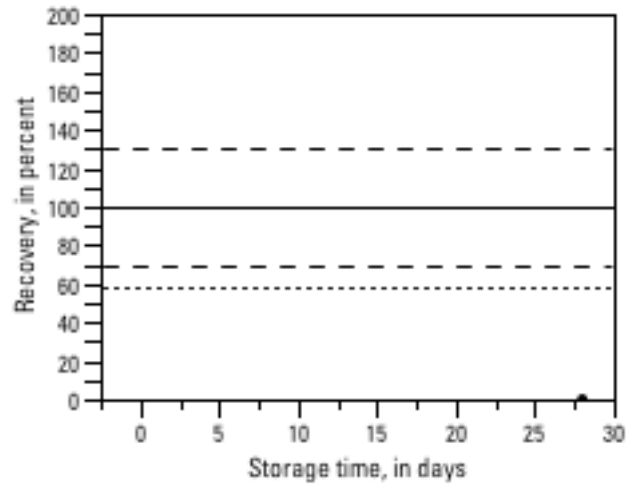
4-(Hydroxymethyl)pendimethalin citric
4°C



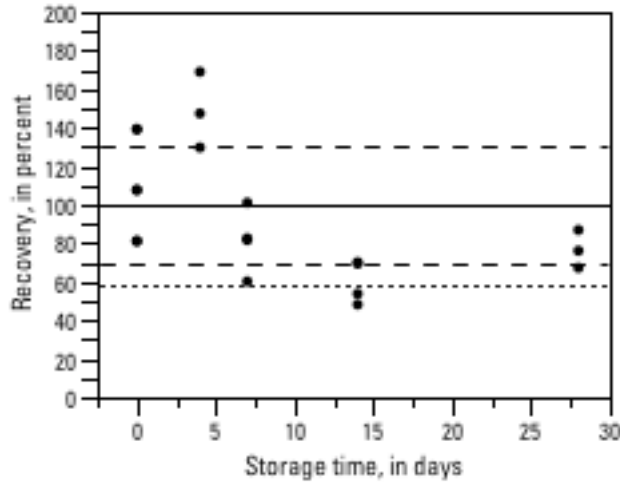
4-(Hydroxymethyl)pendimethalin none -
10°C



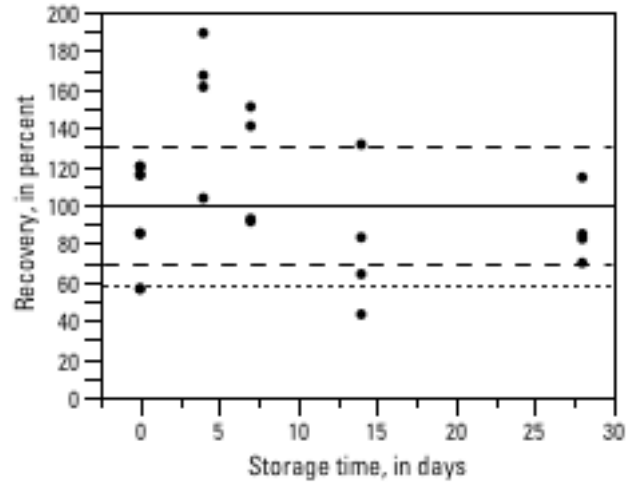
4-(Hydroxymethyl)pendimethalin
ascorbic 4°C



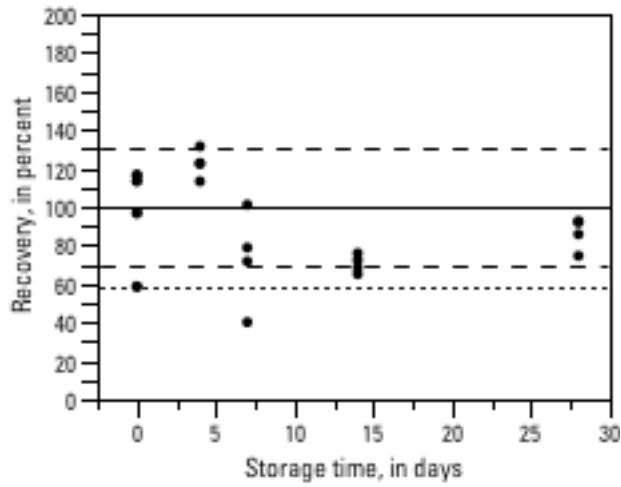
cis-Cyhalothric acid none 4°C



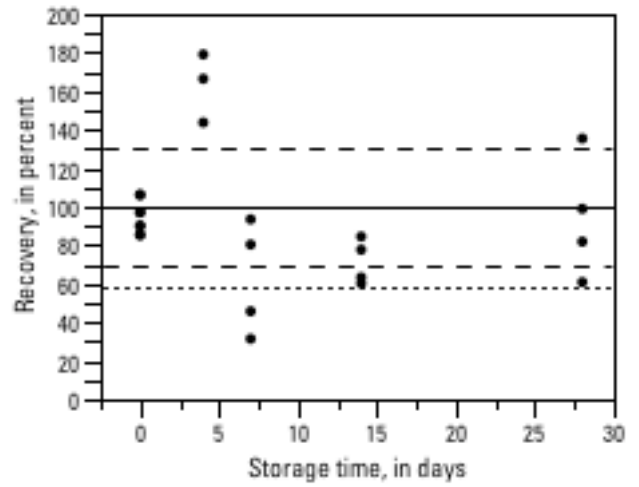
cis-Cyhalothric acid citric 4°C



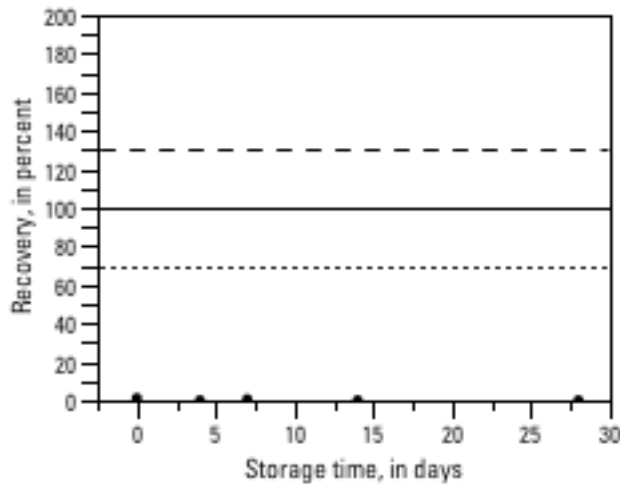
cis-Cyhalothric acid none -10°C



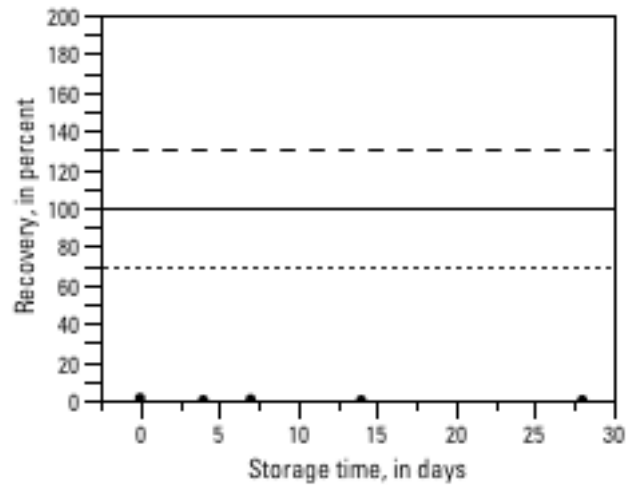
cis-Cyhalothric acid ascorbic 4°C



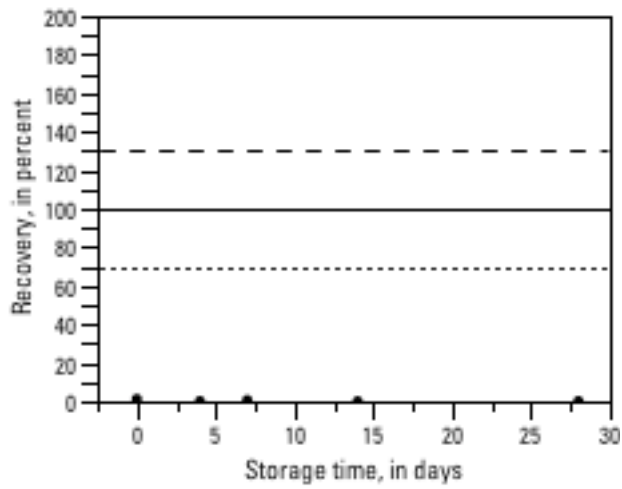
Dechlorofipronil none 4°C



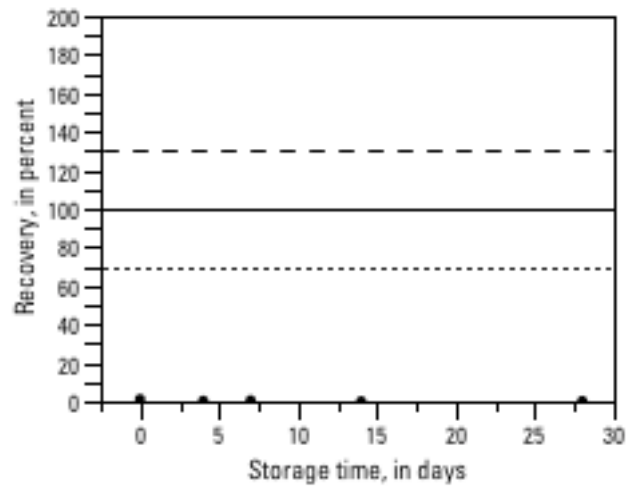
Dechlorofipronil citric 4°C



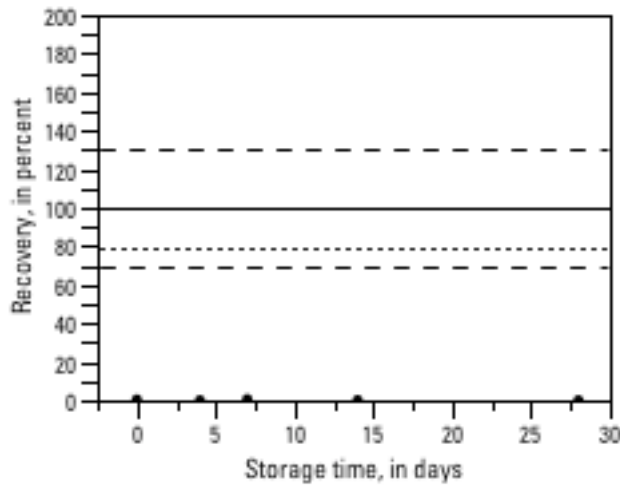
Dechlorofipronil none -10°C



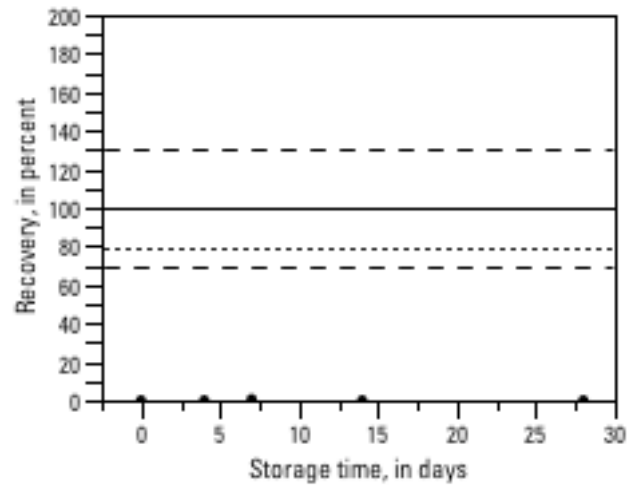
Dechlorofipronil ascorbic 4°C



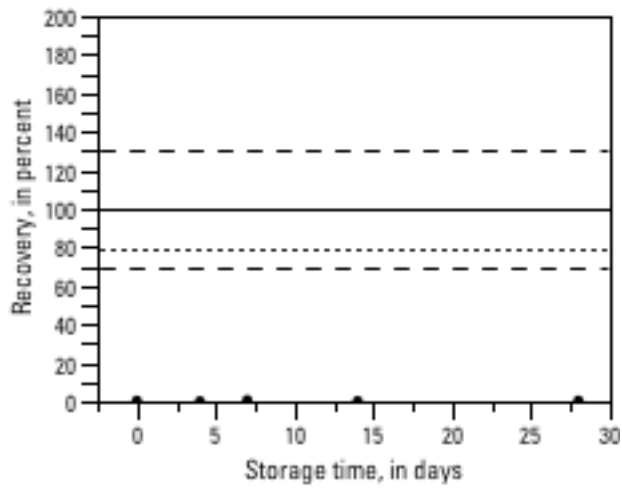
Desulfinylfipronil none 4°C



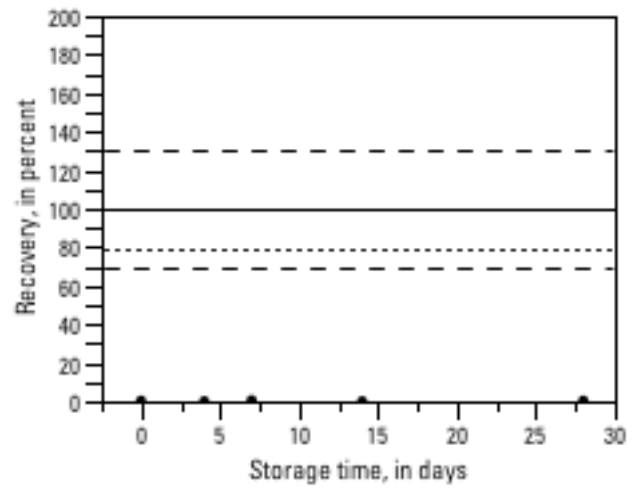
Desulfinylfipronil citric 4°C



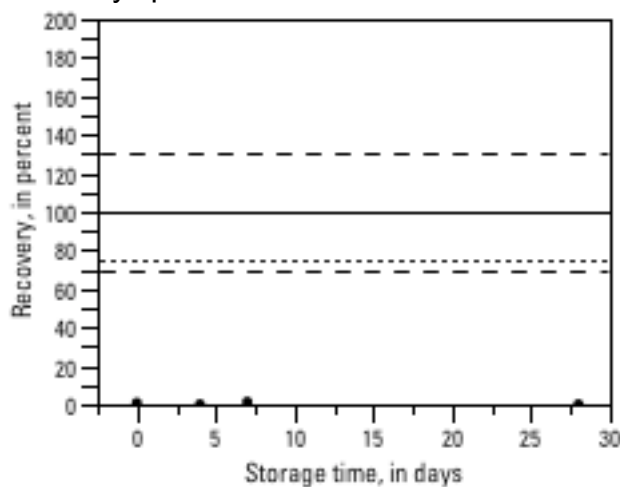
Desulfinylfipronil none -10°C



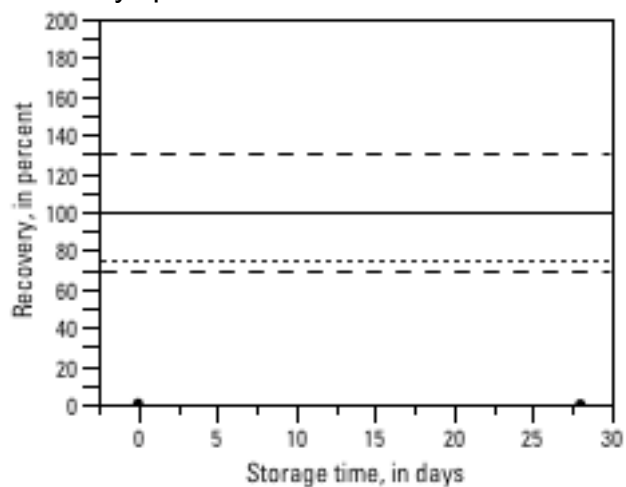
Desulfinylfipronil ascorbic 4°C



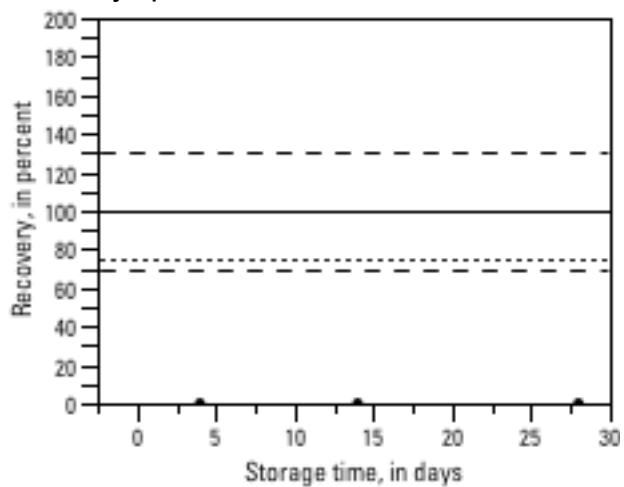
Desulfinylfipronil amide none 4°C



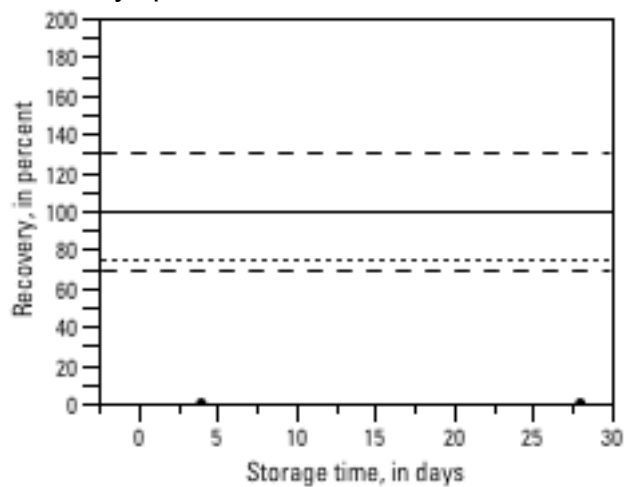
Desulfinylfipronil amide citric 4°C



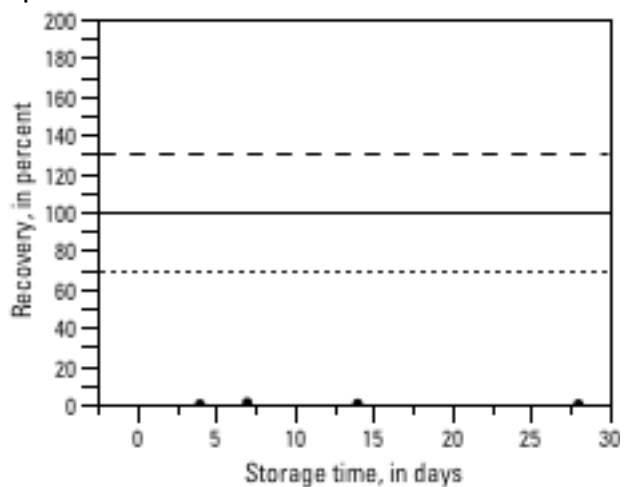
Desulfinylfipronil amide none -10°C



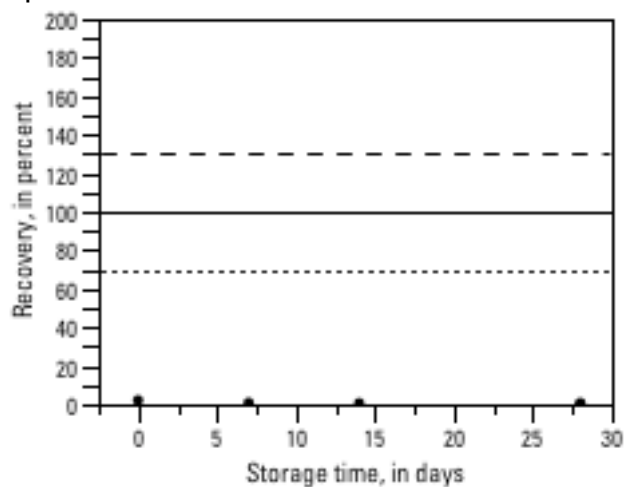
Desulfinylfipronil amide ascorbic 4°C



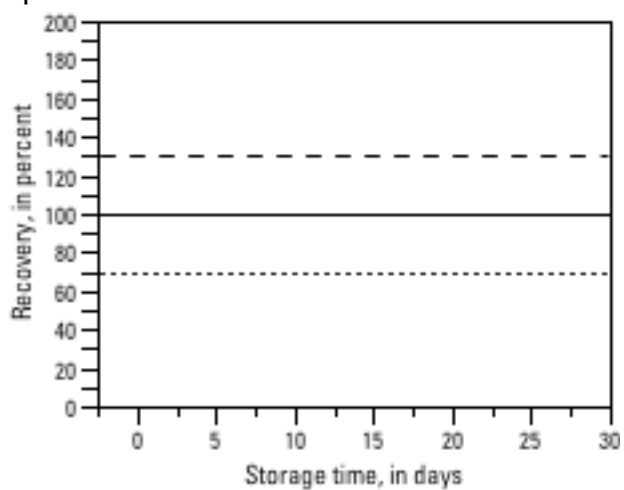
Fipronil amide none 4°C



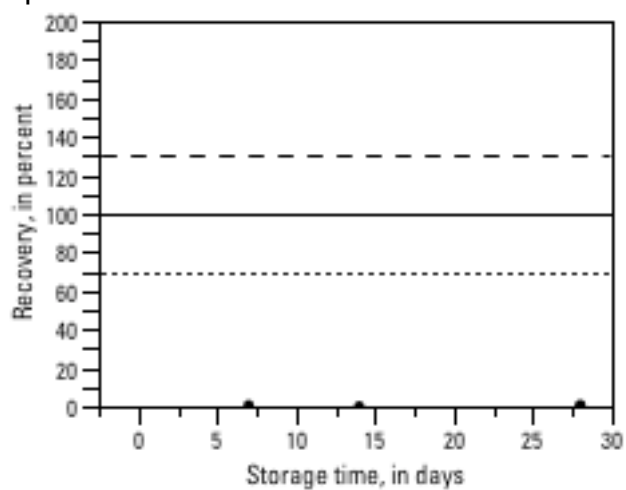
Fipronil amide citric 4°C



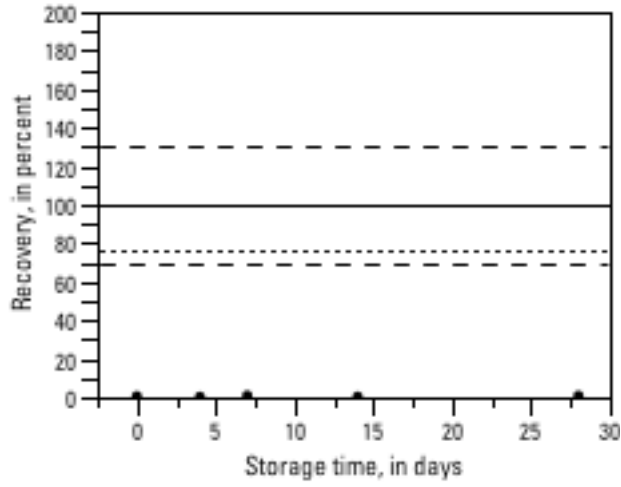
Fipronil amide none -10°C



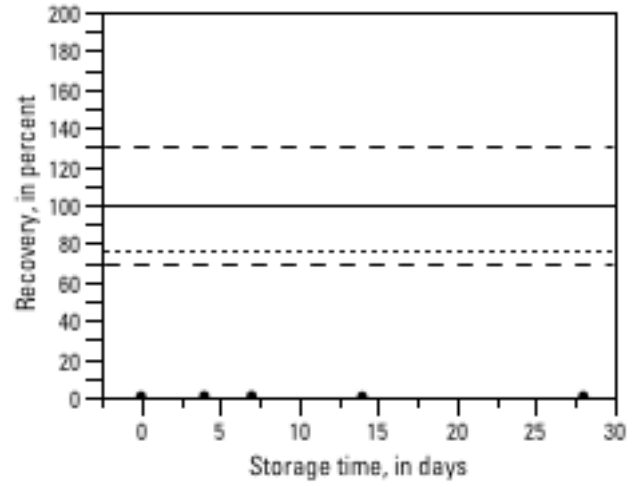
Fipronil amide ascorbic 4°C



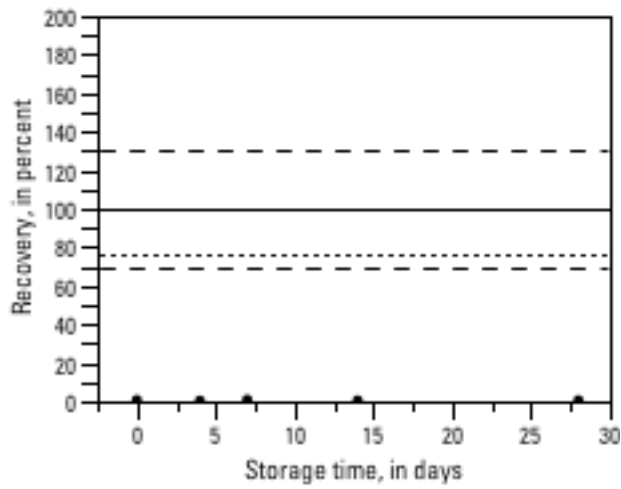
Fipronil sulfide none 4°C



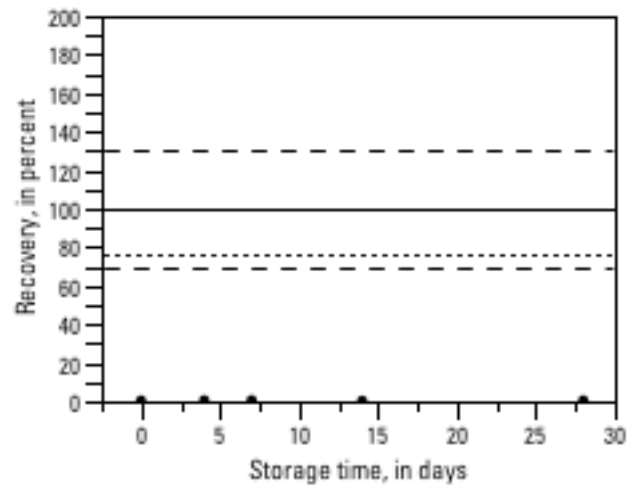
Fipronil sulfide citric 4°C



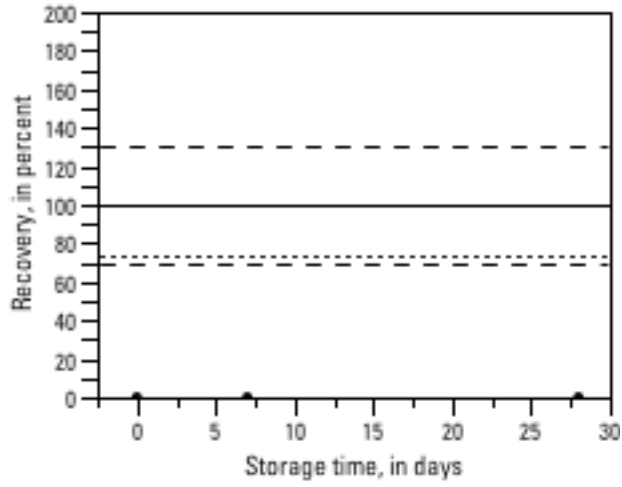
Fipronil sulfide none -10°C



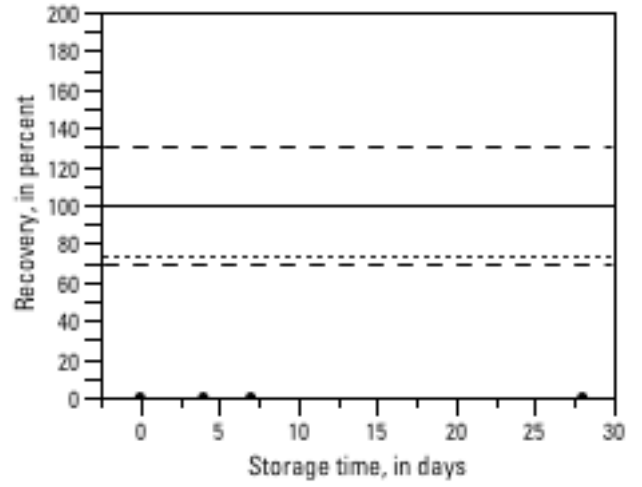
Fipronil sulfide ascorbic 4°C



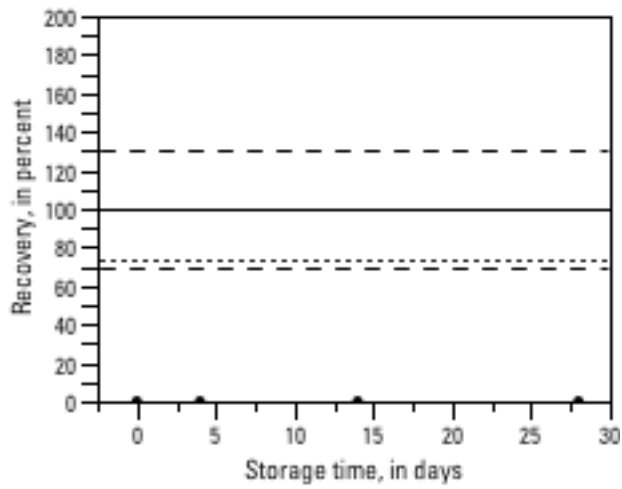
Fipronil sulfonate none 4°C



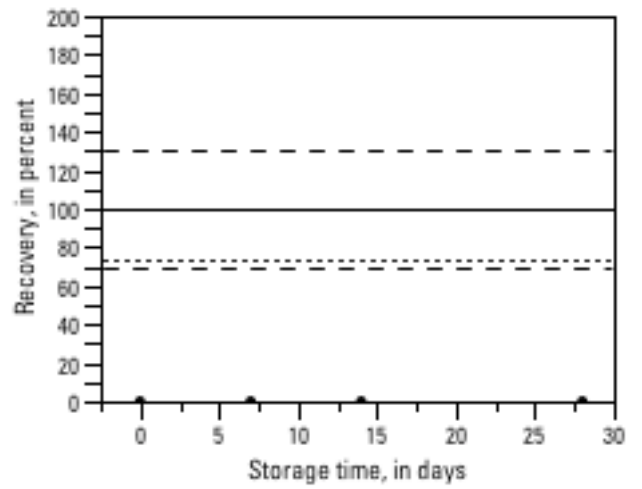
Fipronil sulfonate citric 4°C



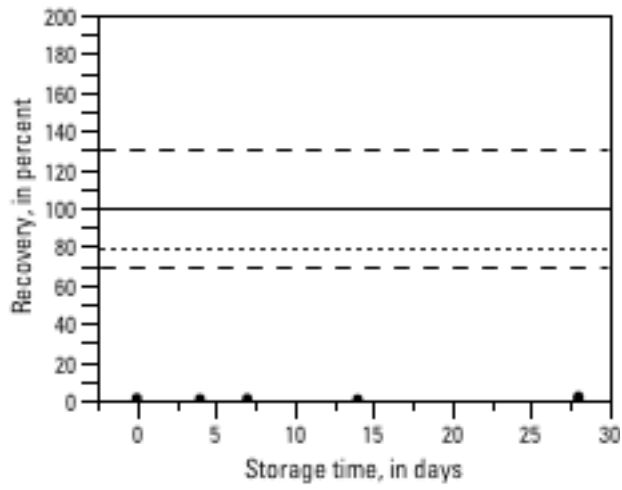
Fipronil sulfonate none -10°C



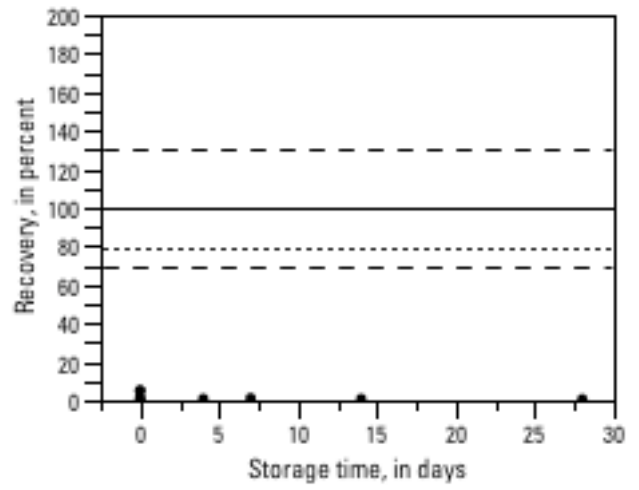
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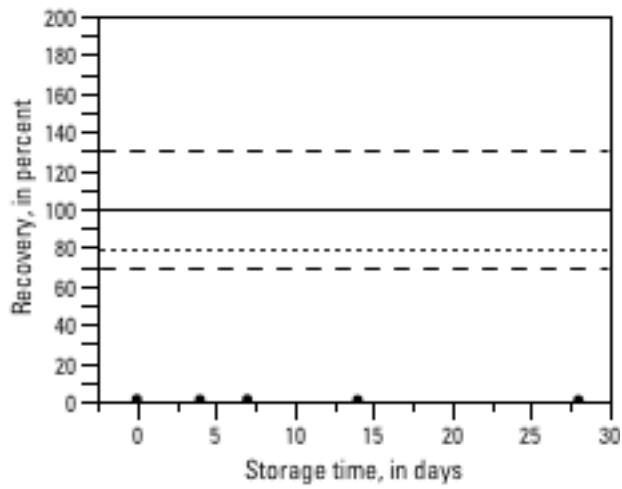
Fipronil sulfone none 4°C



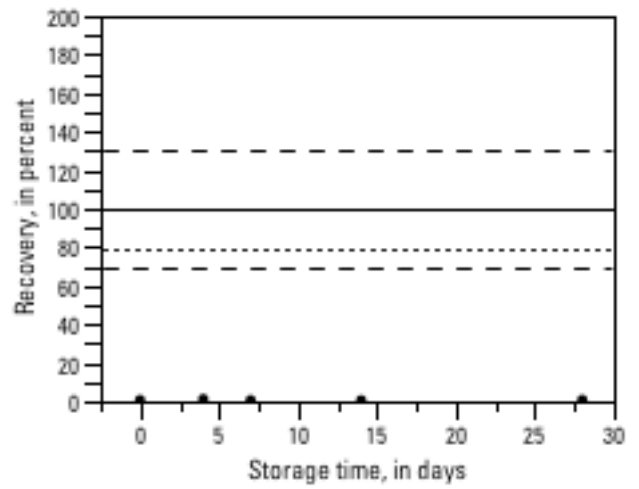
Fipronil sulfone citric 4°C



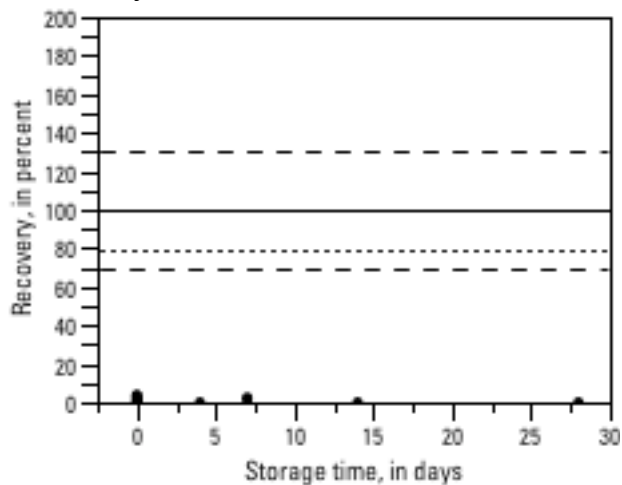
Fipronil sulfone none -10°C



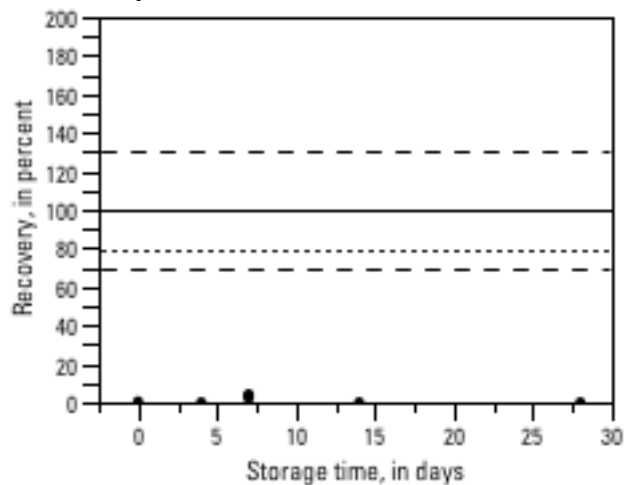
Fipronil sulfone ascorbic 4°C



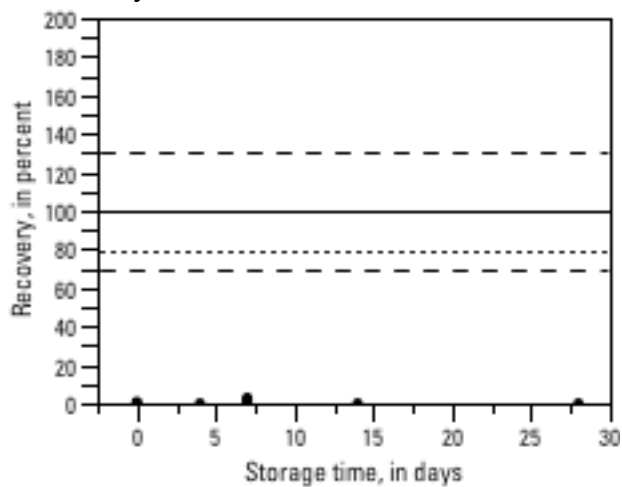
3-Phenoxybenzoic acid none 4°C



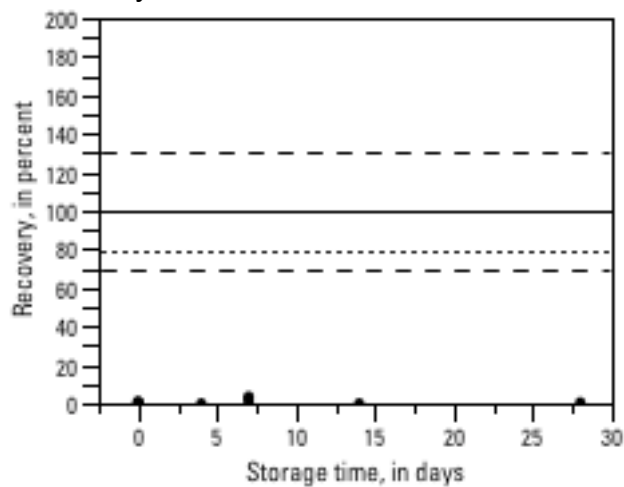
3-Phenoxybenzoic acid citric 4°C



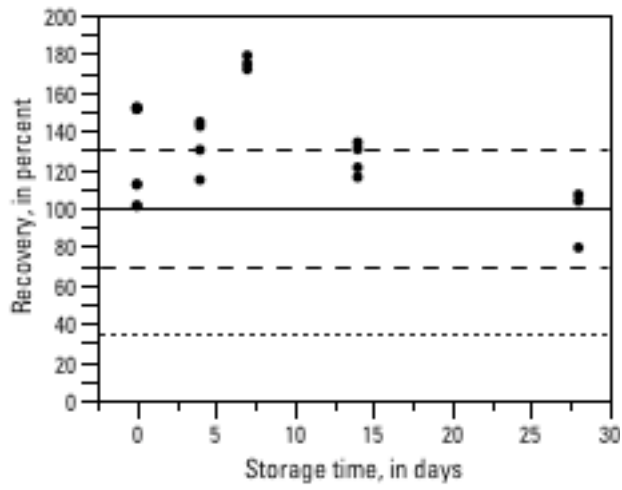
3-Phenoxybenzoic acid none -10°C



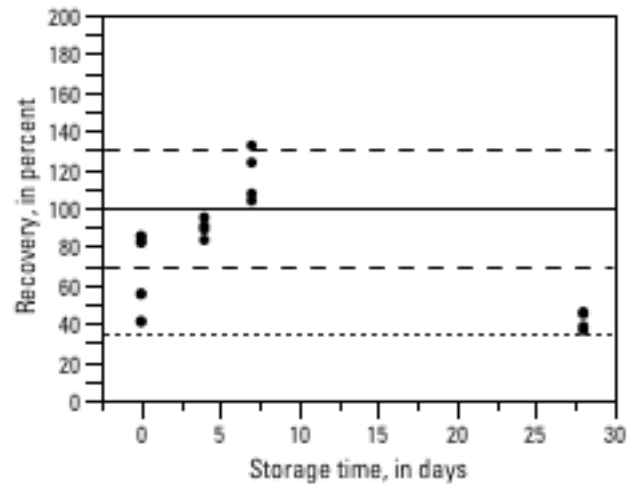
3-Phenoxybenzoic acid ascorbic 4°C



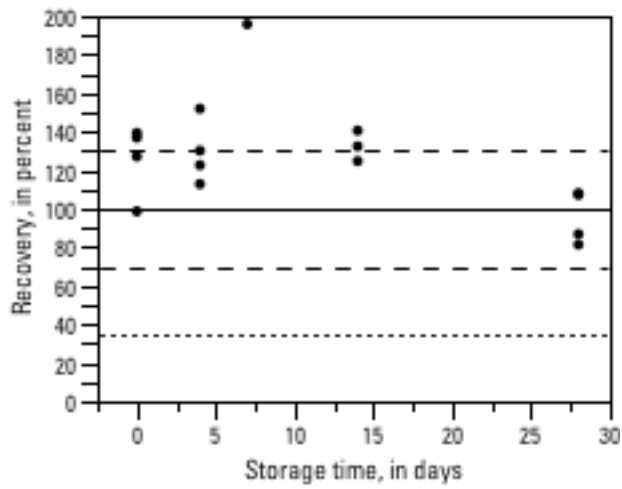
Chlorosulfonamide acid none 4°C



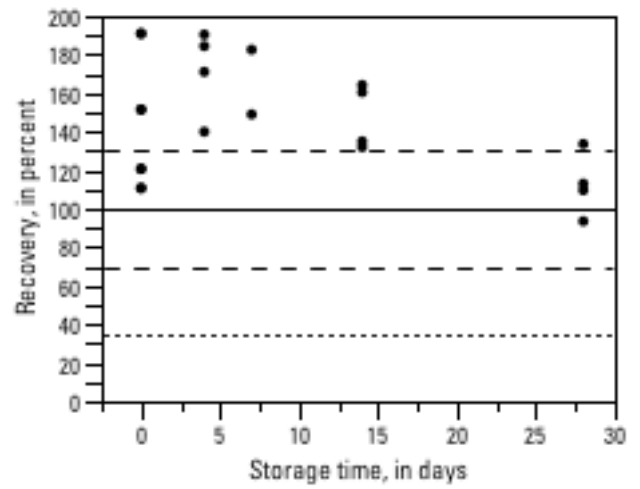
Chlorosulfonamide acid citric 4°C



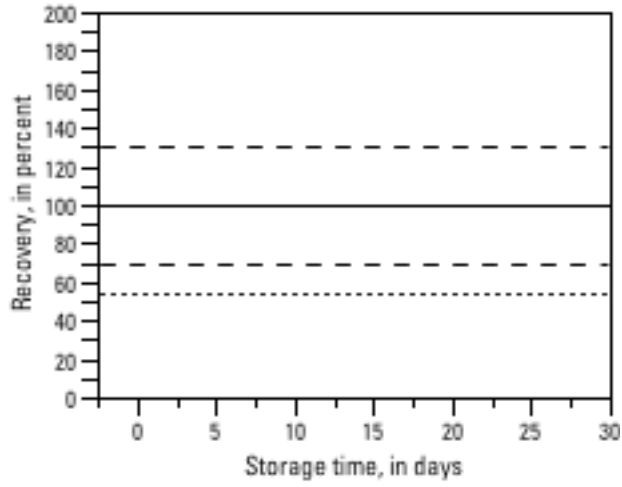
Chlorosulfonamide acid none -10°C



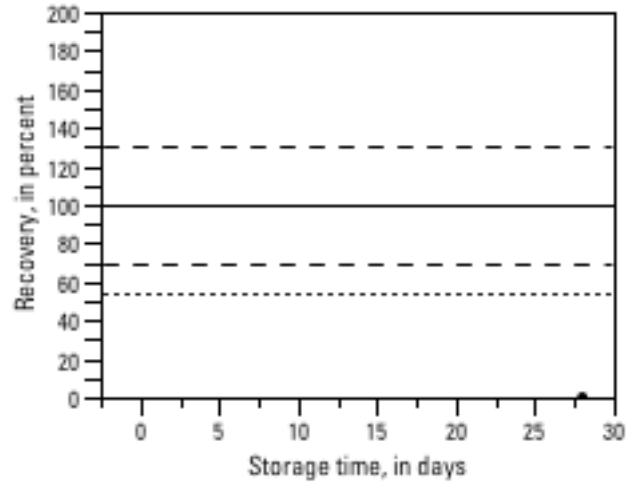
Chlorosulfonamide acid ascorbic 4°C



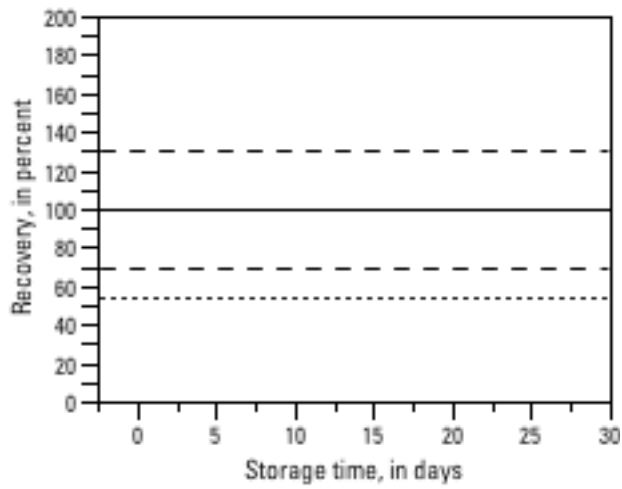
Ammelide none 4°C



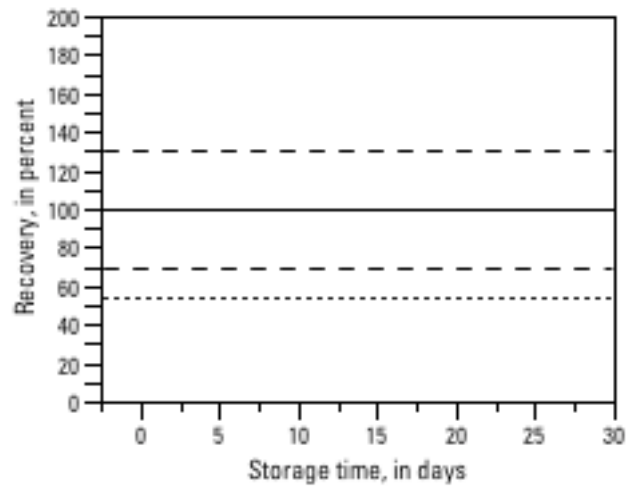
Ammelide citric 4°C



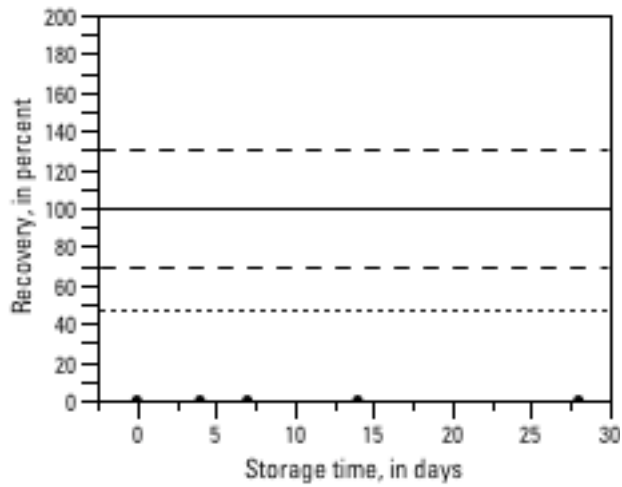
Ammelide none -10°C



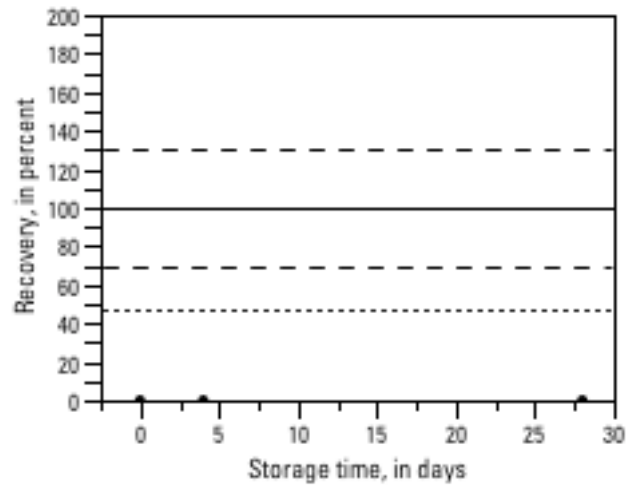
Ammelide ascorbic 4°C



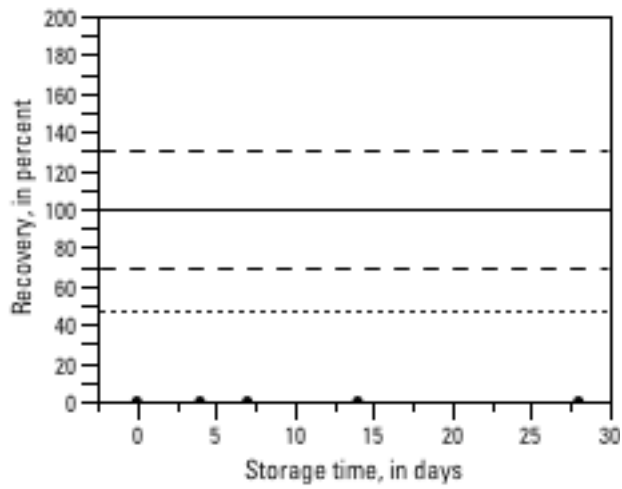
Hexazinone TP D none 4°C



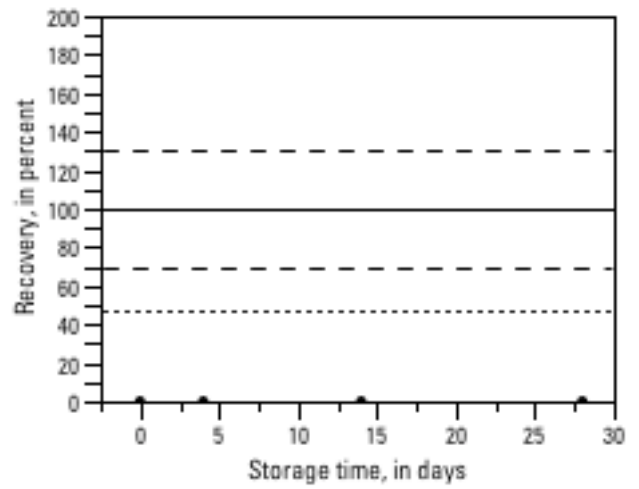
Hexazinone TP D citric 4°C



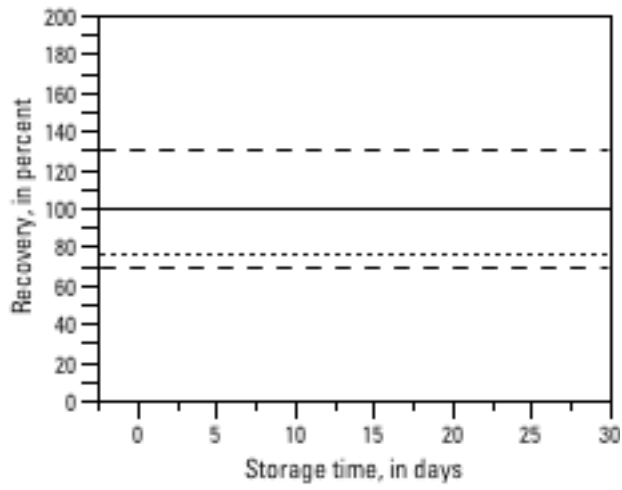
Hexazinone TP D none -10°C



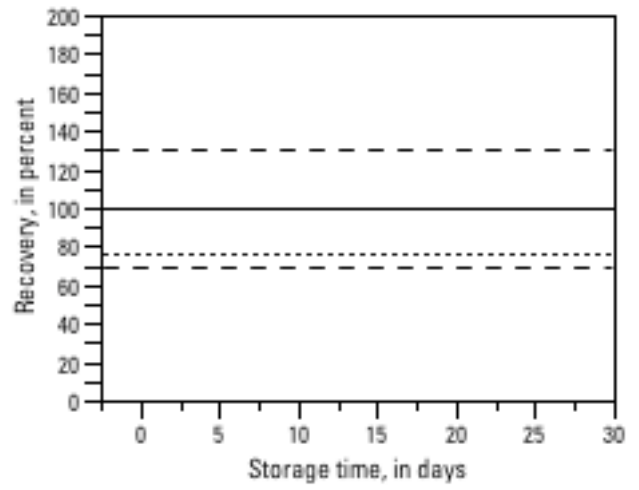
Hexazinone TP D ascorbic 4°C



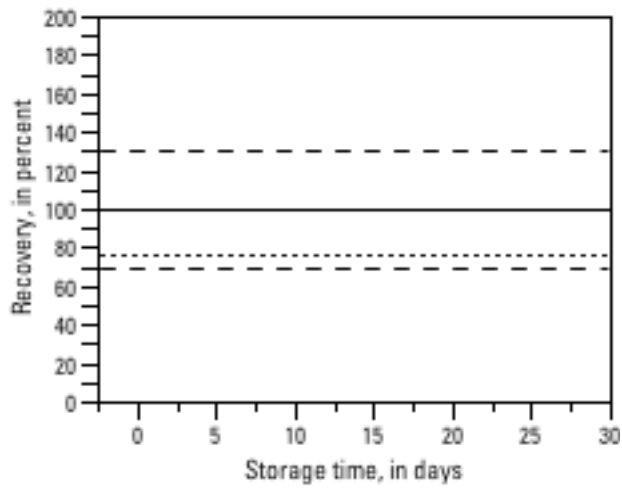
Hexazinone TP E none 4°C



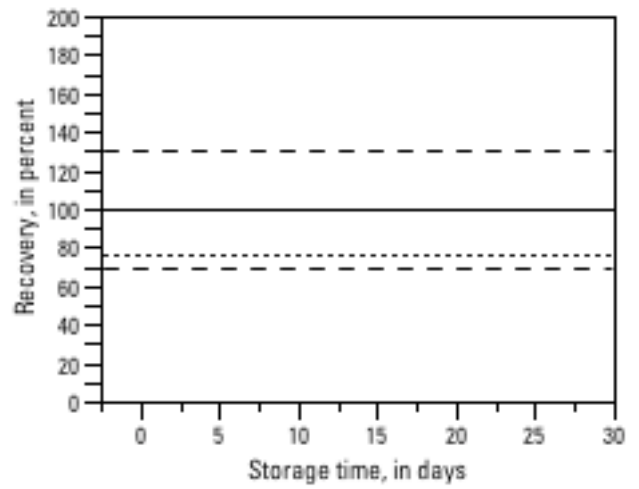
Hexazinone TP E citric 4°C



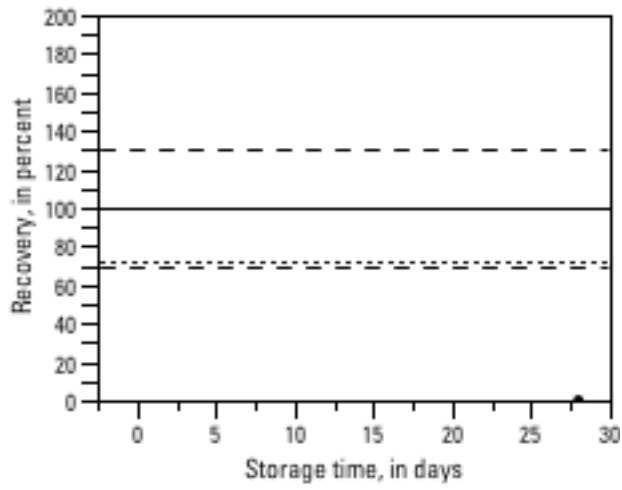
Hexazinone TP E none -10°C



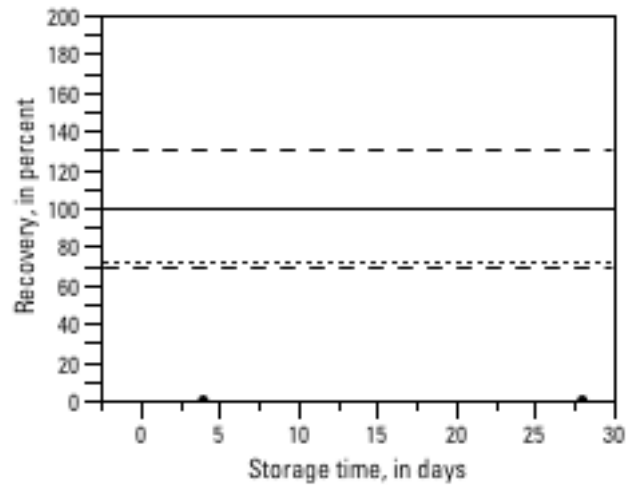
Hexazinone TP E ascorbic 4°C



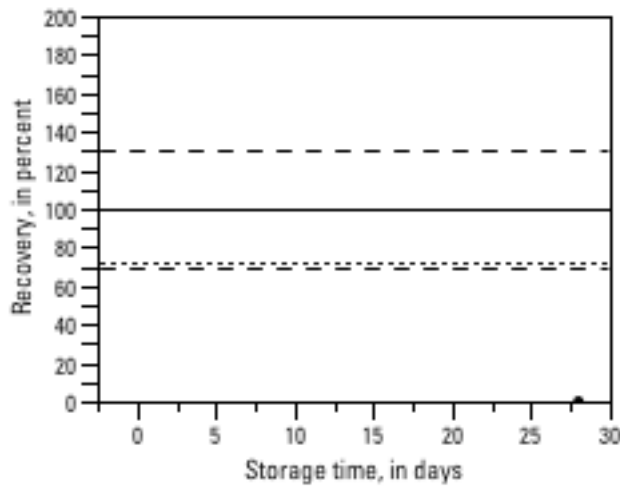
Metribuzin DADK none 4°C



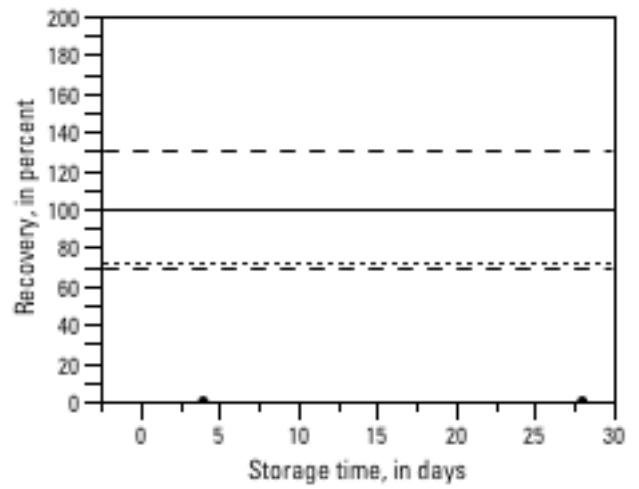
Metribuzin DADK citric 4°C



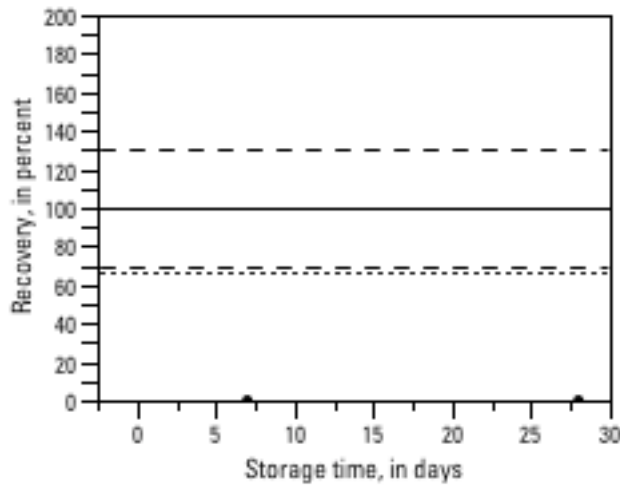
Metribuzin DADK none -10°C



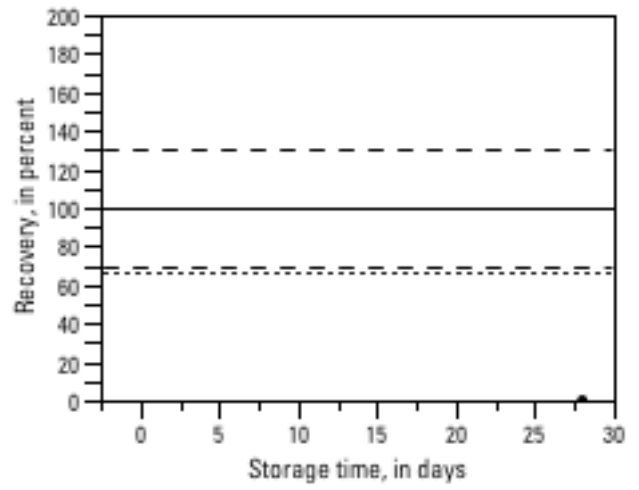
Metribuzin DADK ascorbic 4°C



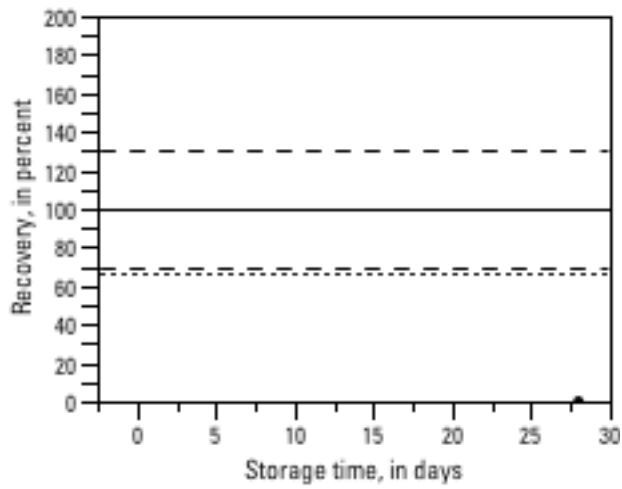
Metribuzin DK none 4°C



Metribuzin DK citric 4°C



Metribuzin DK none -10°C



Metribuzin DK ascorbic 4°C

