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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SUBJECT: PP#1G04006. DE-498 (Flumetsulam) on Soybeans and Corn. Method Validation Requests.

FROM: Nancy Dodd, Chemist Nancy Dodd
Tolerance Petition Section II
Chemistry Branch I: Tolerance Support
Health Effects Division (H7509C)

THRU: Debra Edwards, Ph.D., Acting Chief Debra Edwards
Chemistry Branch I- Tolerance Support
Health Effects Division (H7509C)

TO: Donald A. Marlow, Chief
Analytical Chemistry Branch
Biological and Economic Analysis Division (H7503C)

DowElanco has proposed tolerances of 0.05 ppm for residues of the herbicide N-(2,6-difluorophenyl)-5-methyl-1,2,4-triazolo-[1,5a]-pyrimidine-2-sulfonamide (DE-498; flumetsulam) in/on field corn fodder, forage, and grain; and soybeans.

Method validations for one chemical (DE-498 per se) are requested. These method validations are requested for Method No. ACR 91.6 on soybean grain and for Method No. ACR 91.6.1S on corn grain and corn fodder. Samples should be run in duplicate at the requested fortification levels. (See attached table.) Copies of Method No. ACR 91.6, Method No. ACR 91.6.1S, and the independent lab validation on soybeans are attached.

The analytical reference standards for DE-498 (under the name XRD-498) and the deuterated analytical standard N-d_3-methyl DE-498 are available at RTP.

Please return the requested information on the attached forms and other relevant information concerning the method validations, including copies of chromatograms for representative controls, reference standards, and fortified samples; standard curves, sample calculations, and recommendations to Elizabeth Haeberer, Section Head, Tolerance Petition Section II, Chemistry Branch I- Tolerance Support.

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Attachments:

1. Reporting Form for Method No. ACR 91.6
2. Reporting Form for Method No. ACR 91.6.1S
3. Method No. ACR 91.6 on soybeans
4. Method No. ACR 91.6.1S on corn
5. Method validation for Method No. ACR 91.6 on soybeans by independent lab (MRID #419521-05)

cc with Attachments 1 and 2 (only): RF, SF, Circu., N. Dodd (CBTS), E. Haeberer (CBTS), M. J. Bradley (CBTS), PM #23, PP#1G04006, PP#2F04036, M.T.O. File, E. Saito (CCB), Harvey Hundley (ACL/BEAD)

cc with All Attachments: D. Marlow (ACB/BEAD), P. Corneliussen (FDA)

RDI:E. Haeberer:11/2/92:R. Loranger:11/3/92
H7509C:CBTS:CM #2:Rm 804F:X305-5681:N. Dodd:nd:11/3/92

Method: ACR 91.6, "Determination of Residues of DE-498 in Soybean by Capillary Gas Chromatography/Mass Spectrometry", May 22, 1991 (MRID #419521-04).

Do not use control values for recovery corrections.

Do not report control values as 0; if less than the limit of detection, report as such.

Commodity	Chemical Added	PPM Added	PPM Found	% Recovery
soybean grain	DE-498 per se	0.0		
		0.05		
		0.1		

Modifications to method (major or minor)

Special precautions to be taken:

Source of analytical reference standards:

If derivatized standard used, give source:

Instrumentation for quantitation:

Instrumentation for confirmation:

If instrument parameters differ from method given, list parameters used.

Commercial source for any special chemicals or apparatus:

Comments:

Chromatograms:

Method: ACR 91.6.1S, "Determination of Residues of DE-498 in Soybean by Capillary Gas Chromatography/Mass Spectrometry", September 4, 1991 (MRID #424890-01).

Do not use control values for recovery corrections.

Do not report control values as 0; if less than the limit of detection, report as such.

Commodity	Chemical Added	PPM Added	PPM Found	% Recovery
corn grain	DE-498 per se	0.0		
		0.05		
		0.1		
corn fodder	DE-498 per se	0.0		
		0.05		
		0.1		

Modifications to method (major or minor)

Special precautions to be taken:

Source of analytical reference standards:

If derivatized standard used, give source:

Instrumentation for quantitation:

Instrumentation for confirmation:

If instrument parameters differ from method given, list parameters used.

Commercial source for any special chemicals or apparatus:

Comments:

Chromatograms: