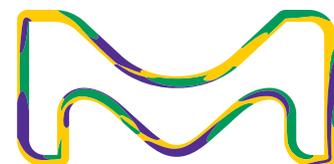


## Food Alert — Fipronil in eggs and egg containing products



In early June, eggs tainted with the pesticide Fipronil were discovered in Belgium and The Netherlands. The EU's executive alarm system, the Rapid Alert System for Food and Feeds (RASFF), alerted France, Sweden, Britain, and Switzerland that eggs contaminated with Fipronil may have crossed their borders. On the basis of this notice, the German Federal Institute for Risk Assessment (BfR) has prepared a risk assessment of individual measurements of fipronil levels detected in eggs and poultry meat.

### Are you testing for Fipronil?

Maximum residue levels of 0.005 mg/kg for the total of Fipronil and its sulfone metabolite are allowed for food consumption. Testing using GC/MS, GC/MS/MS or LC/MS/MS techniques with high quality Pestanal Reference Materials and TraceCERT<sup>®</sup> Certified Reference Materials ensure that levels lower than the maximum residue level in chicken eggs and chicken meat are achievable. Double accredited manufacturing to ISO/IEC 17025 and ISO 17034 gives you the assurance of accuracy and of correct decision making.

### What is Fipronil?

Fipronil is a broad-spectrum insecticide used to combat insects such as fleas, lice, ticks, cockroaches and mites. The use of this insecticide on food-producing animals (livestock) is not permitted.

## Products for determining Fipronil and its metabolites

We offer a complete range of analytical standards, certified reference materials, solvents and columns to analyze your food sample.

Description	Product
Fipronil certified reference material, TraceCERT®	16785
Fipronil, Pestanal, analytical standard	46451
Fipronil-(pyrazole-13C3, cyano-13C), analytical standard	79157
Fipronil sulfone, Pestanal, analytical standard	32333
Fipronil carboxamide, Pestanal, analytical standard	34519
Fipronil sulfide, Pestanal, analytical standard	34520
Fipronil-desulfinyl, Pestanal, analytical standard	41865
Acetonitrile hypergrade	1.00029
Methanol gradient grade for liquid chromatography	1.06007
Methanol hypergrade for LC-MS	1.06035
Ethanol gradient grade for liquid chromatography	1.11727
Water for chromatography (LC-MS)	1.15333

**TraceCERT®**  
Traceable Certified Reference Materials

**SIGMA-ALDRICH®**

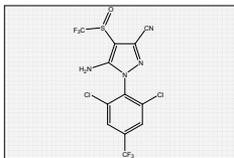
# Certificate

Produced in double accredited laboratory following ISO/IEC 17025 and ISO Guide 34

This certificate is designed in accordance with ISO Guide 31 [1].

Product name: **Fipronil**

Product no.: **16785**  
 Lot no.: **BCBS6032V**  
 Formula: **C<sub>12</sub>H<sub>4</sub>Cl<sub>2</sub>F<sub>6</sub>N<sub>2</sub>OS**  
 Molecular mass: **437.15 g/mol**  
 Traceability [2]: **NIST SRM 350b (Benzoic acid)**  
 Certificate issue date: **November 14, 2016**  
 Expiry: **OCT 2018**



Certified value and uncertainty according to ISO Guide 35 [3] and Eurachem/CITAC Guide [4]		
Substance	Certified value as mass fraction (g/g)	Expanded uncertainty, $U = k \cdot u_c$ ( $k = 2$ ) as mass fraction (g/g)
<b>Fipronil</b>	<b>96.7 %</b>	<b>0.6 %</b>

**Minimum sample:** The sample is solid at room-temperature. 10 mg is recommended as the minimal sample amount. If less material is used, it is recommended to increase the certified uncertainty by a factor of two for half of sample and a factor of four for a quarter of sample.

**Drying instruction:** This material does not require drying before use.

**Intended use:** Use this certified reference material (CRM) as calibrator for chromatography or any other analytical technique.

**Storage and handling:** The CRM should be stored in the original bottle at 2-8°C. Warm to room temperature before opening. After use the bottle should be tightly closed and protected from excessive moisture and light. Store under Argon.

CRM operations: *A. Rück*  
Dr. A. Rück

Certification body: *K.D. Schmidt*  
Dr. K.D. Schmidt



Certificate page 1 of 4

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**SIGMA-ALDRICH®**

**JUST ONE CLICK AWAY**



[SigmaAldrich.com/fipronil](http://SigmaAldrich.com/fipronil)



\* The Fipronil standards are looking similar like this Chlorpyrifos standard.

MilliporeSigma  
290 Concord Road  
Billerica, MA 01821

## To place an order or receive technical assistance

Order/Customer Service: [SigmaAldrich.com/order](http://SigmaAldrich.com/order)  
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 Safety-related Information: [SigmaAldrich.com/safetycenter](http://SigmaAldrich.com/safetycenter)

