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# **Analysis Of Illegal Dyes In Paprika Powder By Lc Ms Ms**

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## **Analysis Of Illegal Dyes In**

10-100 ppb of illegal dyes in food spices. 2. Herein, we present a reliable UHPLC-MS/MS method for the analysis of seven common, illegal dyes in chili spices, with analyte LOQs ranging from 0.012 to 0.469 ppb. This method includes a simple dye extraction via a strong organic solvent, with the

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filtrate being

**Analysis of Illegal  
Dyes in Chili Spices  
Application Note ...**

manufacture and to ensure that all products are free of these illegal and potentially dangerous colourants. 2.1.1 Illegal Dyes Properties The Sudan dyes I-IV, Orange II and Para Red have molecular structures that are characterised by the

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nitrogen:nitrogen azo  
bridge between  
aromatic groups as  
illustrated in the  
structure for Sudan III  
in Figure I.

**Analysis of Illegal  
Dyes in Chilli Powder  
by LC-UV ...**

(2007). Analysis of  
illegal dyes in food by  
LC/TOF-MS.  
International Journal of  
Environmental  
Analytical Chemistry:  
Vol. 87, No. 13-14, pp.

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**Analysis of illegal  
dyes in food by  
LC/TOF-MS ...**

A high temperature  
desorption (HTD) direct  
analysis in real  
time-high-resolution  
mass spectrometric  
(DART-HRMS) method  
was developed for the  
rapid analysis of four  
banned cationic dyes.  
Rhodamine B is used to  
dye foods, while  
malachite green,

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crystal violet, and methylene blue are added to fishponds as antimicrobials. A simple induced phase separation extraction was used to pretreat samples.

## **Rapid Analysis of Illegal Cationic Dyes in Foods and ...**

Sudan dyes are red dyes used for coloring solvents, oils, waxes, petrol, or as additives in shoe and floor



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polish. They have been found in a number of food products such as chili / chili-containing products. Sudan dyes are banned as food additives in the USA, the EU, and many other countries, due to their links to cancer and other negative health effects. To overcome limitations in popular ...

## **Analysis of Illegal Dyes in Food**

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**Matrices Using  
Automated ...**

2.2 Illegal Dyes

Properties The Sudan dyes I-IV, Sudan Red B, Sudan Red 7B, Sudan Orange G, Sudan Red G, Dimethyl Yellow, Orange II, Para Red and Toluidine have molecular structures that are characterised by the nitrogen: nitrogen azo bridge between aromatic groups as illustrated in the structure for Sudan

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III in Figure I.

**Analysis of Illegal  
Dyes in Paprika  
Powder by LC-MS/MS**

...

- Potentially all listed Illegal dyes are carcinogenic or genotoxic in Nature. 4

- ... • Carry-over after the analysis of highly contaminated commodities. •

- Application of an insufficient selective detection. • False

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interpretation of  
interfering peaks.

**ILLEGAL DYES -  
World Spice  
Congress**

dyes. Analysis Our  
experts from the  
Competence Centre of  
Organic Contaminants  
have many years of  
experience with the  
analysis of illegal dyes  
in spices, oleoresins  
and other food  
matrices. Our  
analytical portfolio

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Dyes In Paprika  
includes a wide scope  
of dyes using LC-  
MS/MS technology  
(Tab. 1). As part of a  
regular quality  
assurance program,

## **Sudan dyes and other illegal dyes - Eurofins Scientific**

To protect consumers  
and legitimate  
businesses, food  
products must be  
monitored and tested  
regularly for assurance  
that they are free of

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illegal dyes, which requires reliable methods of analysis.

## **Illegal dyes in food and spices: screening method for 19 ...**

tain azo dyes<sup>1</sup>. The determination of azo dyes in consumer products generally consists of the analysis of the amines after chemical reduction. LC-MS is a suitable technique to determine

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these amines<sup>2</sup>.

However, routine labs often rely on UV based detectors to perform such type of analyses. This is mainly due to the high

## **Developing a method for the analysis of Azo Dyes using the ...**

Analysis of illegal dyes in Chili Spices via UHPLC-MS/MS.

Introduction. Since 2003 the usage of azo

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and non-azo dyes for food coloring has been declared as illegal by many of the food international authorities across the globe. That is because these substances such as Sudan I,II,III,IV and Rhodamine B, ...

## **Analysis of illegal dyes in Chili Spices via UHPLC-MS/MS ...**

A sensitive and accurate methodology was developed for the



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analysis of seven  
illegal dyes (Sudan I,  
Sudan II, Sudan III,  
Sudan IV, Sudan  
Orange G, Sudan R and  
Para Red,) used as  
additives in food ...

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dyes in food by  
LC/TOF-MS | Request  
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The aforementioned  
spices deemed 'at risk'  
are quarantined on  
delivery, sampled and  
analysed by a UKAS

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accredited  
method/Laboratory for  
over 20 different illegal  
food dyes. Only once a  
satisfactory report is  
achieved is the product  
released from its  
quarantine status and  
made available for sale  
or internal processing.

## **Illegal Dyes in Spices - Gerald McDonald & Company Limited**

Sudan dyes are illegal  
in many industries.

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However, these dyes have the advantages of colour fastness and low price. Despite the fact that they are banned from use by the Food Standards Agency (FSA) and the EU (Yan et al., 2011), some industries use Sudan dyes in manufactured products, including; spices, polishes, waxes, textiles, and cosmetics, and in scientific applications, furthermore, it ...

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## **Determination of seven illegal dyes in Egyptian spices by**

...

challenges in Sudan  
dyes analysis is to  
achieve high sensitivity  
and selectivity while  
keeping minimal  
sample clean up.<sup>5</sup> In  
this study we describe  
an easy,  
comprehensive LC  
method using a  
Thermo Scientific  
Transcend TLX-1

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Dyes In Paprika  
system powered by  
TurboFlow technology  
to analyze five illegal  
dye residues in a  
variety of sauces.  
Methods

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Matrices using  
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6.2.5. Analysis of illegal dyes. The illegal use of colouring in food came to prominence in 2003 when illegal Sudan dyes were used to

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colour raw materials and food ingredients originating outside of Europe, resulting in the largest ever food recall in UK history. It nevertheless remains an important food safety issue.

## **Methods of analysis for food colour additive quality and**

...

These dyes are considered to be carcinogenic and

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genetically harmful and are therefore prohibited as food additives in the EU (not listed in the dye directive 94/36/EC). Nevertheless, these dyes are used in some countries to intensify the colour of spices such as paprika and chili products or to compensate for light - or age-related colour losses.

**Analysis of Dyes -**

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**Eurofins Scientific**

Analysis of Illegal Dyes  
in Food Matrices using  
Automated Online

Sample Preparation  
with LC/MS Yang Shi,  
Catherine Lafontaine,  
Matthew Berube, John  
Fink, François

Espourteille Thermo  
Fisher Scientific,  
Franklin, MA

Application Note: 560

Key Words • Transcend  
TLX-1 • TurboFlow  
Technology • Exactive



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**Application Analysis  
of Illegal Dyes in  
Food Matrices Note**

...

Analysis The Eurofins experts from the Competence Centre for Organic Contaminants have many years of experience in the analysis of illegal dyes in spices, oleoresins and other foods. The Eurofins portfolio includes the analysis of a wide range of prohibited dyes using

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LC-MS/MS technology  
(Tab. 1).

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**201609**

This technical report, originally published in 2006 and now reprinted, outlines an analytical method developed to measure the illegal dyes Sudans I-IV, Sudan Red G, Sudan Red B/7B, Toluidine Red ...

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