

# Premier Analytical Services

Food Authenticity Centre of Expertise -  
General Proficiency



Lincoln Road, High Wycombe HP12 3QS



## Background



**Dr Gordon Wiseman**

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Premier Analytical Services (PAS) are eight accredited laboratories operating as one Centre of Expertise, internationally respected for providing high quality analytical services and unrivalled technical expertise to the food industry. PAS has many years' experience in both classical analytical chemistry and modern molecular methods including Next Generation Sequencing as well as quantitative PCR design and analysis.

PAS utilises the most modern and effective approach to investigate authenticity issues, including the use of NGS, PCR and other molecular techniques. PAS was the first UK laboratory to attain UKAS accreditation for quantitative GMO analysis by real-time PCR.

PAS is involved in authenticity projects throughout Europe and can advise on emerging and existing authenticity issues amongst a plethora of areas. PAS are members of the Defra Authenticity Methods Working Group and its technical sub-committee.

Dr Gordon Wiseman FRSC is a Churchill Fellow, having been awarded in 1997 following his study of the effects of geographical origin and grain morphology on durum wheat authenticity.

## Areas of expertise



- Meat Authenticity Verification by DNA analysis and immunological methods
- Genetically Modified Organisms detection and quantification by DNA analysis
- Pasta, Cous Cous or Semolina authenticity - presence and quantification of non-durum wheat by DNA analysis
- Cereals authenticity by DNA analysis
- Herbs & Spices authenticity by microscopy
- Detection of illegal colour dyes
- Melamine testing

## Authenticity challenges



More than 30 years of experience in Molecular Diagnostic techniques has meant that our scientists are continuously at the forefront of the detection and quantification of GMOs, providing expert advice to the UK and European governments.

PAS offer a 'universal' meat detection assay for vegetarian foods, detecting meat above a level of 0.05% even in the presence of milk and cheese.

## Information available

### [News from PAS](#)

- PAS awarded ROSPA Gold Award 2017
- Over 110 UKAS Accredited Methods
- Acrylamide, Furan, MCPD Esters and Glycidol Esters analysis at PAS
- Dr Gordon Wiseman wins FDF Food Scientist of the Year 2016
- Bacillus Toxin (Cereulide) Testing available
- Vitamin D2 or D3 Methods UKAS accredited
- Foreign Body Identifications – over 30 accredited methods

### [Videos from Premier Foods](#)

- Premier Foods Sustainability Video