

# **Laboratory Audit and Accreditation Scheme**

## **Checklist**

(Revised November 2008)

Laboratory Audited	
Location	
Date of Audit	
Auditor	
Name	
Signature	

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#### COMPLETING THE CHECKLIST

#### Introduction

Auditors must use the following checklist when auditing laboratories being considered for UK Flour Millers laboratory accreditation. It should be used in conjunction with the "UK Flour Millers Standard for Intake Laboratories and Intake Proficiency Scheme Protocol" and the "UK Flour Millers Laboratory Audit and Accreditation Protocol". Both documents are available from UK Flour Millers, either by post (UK Flour Millers, 21 Arlington Street, London, SW1A 1RN) or from the UK Flour Millers web-site www.ukflourmillers.org

Throughout this checklist the relevant clauses of the UK Flour Millers Standard for Intake Laboratories are stated in brackets in the section heading.

The checklist should be used during the audit and all observations recorded to confirm where conformance and non-conformance with the "UK Flour Millers Standard for Intake Laboratories and Intake Proficiency Scheme Protocol" are found. The checklist should also be used to record any observations. (For definitions of non-conformances and observations see Audit Grading System on page 7).

## Throughout this checklist the annotation **X** indicates that if this clause is not fulfilled a MAJOR non-conformance must be raised.

On completion of the audit, it is the auditor's responsibility to leave a copy of the completed checklist with the laboratory (See UK Flour Millers Laboratory Audit and Accreditation Protocol) and to send the original completed checklist (attached to the UK Flour Millers checklist) to UK Flour Millers.

#### The Auditor

One aim of the UK Flour Millers Proficiency Scheme is the raising of standards in the Industry. Accordingly, it is recommended that the auditor should be able to demonstrate sufficient knowledge of the science and application of the testing methods in order to be able to carry out the audit in sufficient depth. To confirm the auditor's relevant qualifications and experience, the auditor should complete the box on page 5

(Auditors Relevant Qualifications/Experience).

Auditors are requested to provide the information requested on pages 1, 5 and 6.

#### Laboratories already accredited under other schemes

If the laboratory is already accredited under another scheme which covers the areas included in the UK Flour Millers audit, auditors are NOT required to re-audit these. Auditors should check that the laboratory holds current certification (BRC, CLAS, and Laced). These three certificates are acknowledged as certification to ISO 17025 or equivalent and are accepted by UK Flour Millers as suitable replacements.

#### **Scope of Accreditation**

The scope of the certificate includes all of the tests required by UK Flour Millers.

These are:

Hagberg Falling number

Protein

Moisture

Hectolitre weight

Screenings and Admixture

Hardness

Gluten washing

Visual examination

Where a laboratory performs any of these tests, they **must** be included within the scope of accreditation. Only tests not performed by the laboratory can be considered for exclusion.

As a minimum, the scope of accreditation must include Hagberg Falling Number, Protein and Moisture Content determinations.

#### Tests to be audited

The UK Flour Millers Laboratory Audit and Accreditation Protocol (6.1) requires that: Where all the tests within the scope of accreditation cannot be witnessed during each audit, the auditor shall nominate the tests to be viewed during each audit. The auditor shall ensure that all tests within the scope of accreditation are audited at least once every three years.

#### Additional checks

- Each audit must include Sections 1 to 16 of the Checklist, where appropriate.
- Sections 17 to 26 of the Checklist may only be omitted if the tests are not applicable.

			Audi	it D	etail	ls				
Auditor:		Audit Date:		Dat	te of P	revious	s Audit:	Rej	port Code:	
Laboratory Name:		1		I						
Address:										
Post Code:										
Tel. No			Fax No	)						
			Type	of	Aud	it				
First audit First		Second	Third		Fourth		Other			
surveilla (1 Year)		surveillance (2 years)	surveillance (3 years)		surveilla (4 years		surveillan (- years)	ice		
			Scope of A	Acc	redi	 tatio	n n			
Product			est	1100	lui	tatio	<u> </u>	N	Method	
e.g. Wheat	Protein						Infrate		hole grain analys	ser
			Audi	it atte	endees					
Name	Job Ti	itle					Opening	τ	Laboratory	Closing
							Meeting		Audit	Meeting
Summary of audi	t findi	n a c								
Summary of audi  Major non  Date of next audit:	-confo	Г	Minor	non-	-confo	rmance	es		Observ	ations

Laboratory Background
Number of staff:
Wheat testing experience of staff:
Working patterns:
Number of samples tested each day:
Proposed changes to scope of accreditation:
Changes to laboratory facility since last audit:
Major non-conformances raised during last audit cleared:
Minor non-conformances raised during last audit cleared:
Other relevant information:
Auditor's Relevant Qualifications/Experience (Relevant to
wheat intake and testing, including UK Flour Millers qualifications)
Employment history relevant to wheat and milling:
Wheat testing experience:
UK Flour Millers milling course qualifications:
Laboratory auditing experience:
Other:

#### **AUDIT GRADING SYSTEM**

The UK Flour Millers Laboratory Assessment scheme uses four grades to classify the audit findings.

**Compliance** signified by ✓ in the auditor's checklist to indicate compliance with the

laboratory's documented procedures, compliance with the UK Flour Millers Standard for Intake Laboratories and that good practices are employed.

#### **NON- CONFORMANCES**

Major non-conformance, signified by MAJ in the auditor's checklist to indicate there is;

- a significant failure or breakdown in a particular area
- > significant departure from the UK Flour Millers Standard for Intake Laboratories
- > significant departure from the laboratory's documented procedure
- > an issue that will directly affect or compromise the reliability of the test results

A major non-conformance requires prompt attention and must be addressed.

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Minor non-conformance, signified by MIN in the auditor's checklist to indicate

that total compliance with the laboratory's documented procedures or the UK Flour Millers Standard for Intake Laboratories has not been demonstrated or a poor laboratory practice has been observed, but the deviation does not currently compromise the reliability of results but has the potential to do so if not addressed.

<u>A minor non-conformance</u> does not need to be addressed for accreditation to be considered, but must be addressed in advance of the next scheduled audit.

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**Observation,** signified by **OBS** in the auditor's checklist to indicate that that a potential improvement to the system has been identified.

An observation does not preclude accreditation and implementation is at the laboratory's discretion.

## **UK Flour Millers Laboratory Audit Checklist**

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## **UK Flour Millers Laboratory Audit Checklist**

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## **UK Flour Millers Laboratory Audit - Checklist**

#### PART 1

UK Flour Millers Laboratory Audit - Checklist					
EQUIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform			
1. BALANCES 1.1 Are the balances uniquely identified?					
1.2 Does the laboratory have a documented procedure for calibration and checking of balances?					
1.3 What was the date of the last calibration?  (X if the balance has not been calibrated within the last 12 months)					
1.4 Does the calibration certificate confirm traceability to National Standards?  (X if the calibration certificate does not confirm traceability to National Standards)					
1.5 How often does the laboratory carry out balance accuracy checks over the range of use?  (**X* if the laboratory does not carry out balance accuracy checks over the range of use at least weekly.					
1.6 What was the date of the last calibration of the weights?  (X if the weights have not been calibrated within the last 24 months)					
1.7 Does the laboratory complete suitable records of balance checks, showing: date, balance identifier, acceptable tolerance, measured result and operator's signature?  (X if suitable records of balance checks are not maintained)					

EQU	UK Flour Millers Laboratory Audit - Checklist  EQUIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)  Conform Non-Conform				
2.	THERMOMETERS				
2.1	Are the thermometers uniquely identified?				
	es the laboratory have a documented procedure for the calibration of reference and working mometers?				
<u>RE</u>	FERENCE THERMOMETERS				
2.3	What was the date of the last calibration?  (**X if the calibration of digital reference thermometers was not carried out within the last 12 months / if mercury-in-glass reference thermometers were not calibrated within the last 5 years)				
2.4	Does the calibration certificate confirm traceability to National Standards?  (X if the calibration certificate does not confirm traceability to National Standards)				
	WORKING THERMOMETERS				
2.5	Do the calibration records confirm:  Date of the last calibration?  (**X* if the calibration of working thermometers was not carried out within the last 12 months)				
2.6	Do records confirm that the correction factors are applied correctly? (**X* if the correction factors have not been correctly applied)				

	UK Flour Millers Laboratory Audit - Checklist				
EQU	JIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform		
3	TIMERS				
3.1	Are the timers uniquely identified?				
3.2	Does the laboratory have a documented procedure for the calibration of timers?				
3.3	Does the laboratory calibrate the timer over the period of use? (**X* if the timers are not calibrated over the period of use)				
3.4	Do the calibration records confirm:				
	Date of the last calibration (X if the timers are not calibrated at least every 12 months)				
	Who carried out the last calibration?				
	Reference device used				
	An acceptable variation from the reference device has been achieved				
	Where an unacceptable difference has been achieved, do the records confirm that actions have been taken				

	UK Flour Millers Laboratory Audit - Checklist					
EQU	JIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform			
4.	WATER PURIFIERS  Determination of Falling Number (FTWG 06 version 2.1) and Determination of Gluten Content Using the Glutomatic (FTWG 13 version 2.1) both require the use of distilled or deionised water.  (**X* if the laboratory does not use distilled or deionised water for Falling Number and Gluten Content by Glutomatic determinations).					
4.1	State the type of water purifier used by the laboratory					
4.2	What checks does the laboratory perform to monitor the quality of purified water?					

UK Flour Millers Laboratory Audit - Checklist				
EQUIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform		
<b>5 PREPARATION OF GROUND SAMPLES</b> Based on FTWG 04p				
5.1 When was the grinder last serviced?  Date of the last service Serviced by  (**X* if the grinder was not serviced within the last 12 months)				
5.2 Does the laboratory have a suitably documented method for the grinding of whole grains? (X if the laboratory does not have a documented method in place)				

UK Flour Millers Laboratory Audit - Checklist	T	1
<b>EQUIPMENT CALIBRATION and OPERATION (7, 8 &amp; 9</b> 13, 14 & 15)	Conform	Non- Conform
6 CHECKING THE PARTICLE SIZE OF GROUND SAMPLES Based on FTWG 03p		
6.1 How often does the laboratory check the particle size of the ground products from <u>each</u> grinder?  (X if the ground sample from each grinder is not checked at least every 6 months)		
6.2 Does the laboratory check the particle size of the ground sample "in house" or send samples to an approved laboratory?		
6.3 If done in-house, does the laboratory have a suitably documented method for the sieving of ground samples? (**X* if no documented method in place)		
6.4 If performed in-house, date of last sieve calibrations (X if the sieves have not been calibrated or checked against calibrated sieves within the last 12 months)		
6.5 Do the records confirm:  Date Operator Equipment used  Raw data Correct calculation  When <97.0% is recovered, the test is repeated  Losses of ≤3.0% are added to the throughs  Results are quoted to the nearest 0.5%		
6.6 Are results for grinders compliant with the requirements of the relevant FTWG methods?  (**X* if the results are not compliant with the requirements of the relevant FTWG method)		
Note: FTWG 06 Falling Number, FTWG 13 Glutomatic, and FTWG 19 Protein by Dumas require ground samples to meet the requirements of FTWG 04p i.e.  710μm 100% passing through sieve, 500μm ≥95% passing through sieve, 200μm ≤85% passing through sieve		
FTWG 08 Oven moisture requires ground material to meet these requirements:  1.7mm 100% passing through sieve,  1.0mm >90.0% passing through sieve,  0.5mm >50.0% passing through sieve		

UK Flour Millers Laboratory Audit – Checklist				
EQUIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform		
7 HAGBERG FALLING NUMBER Based on FTWG 06 7.1 What type(s) of machine(s) used? Quote model number and serial number.				
7.2 Certificate of calibration in place?  (X if the machine has not been calibrated within the last 12 months).				
7.3 Does the laboratory have a suitably documented method?  (**X* if no documented method in place).				
7.4 Date of last check / calibration of water dispenser?  ( **X if the dispenser is not checked at least weekly)  ( **X if the results do not confirm that the dispenser is accurate to 25 ± 0.2ml)				
7.5 How often does the laboratory measure a control sample? (X if no control sample is measured)  How is the acceptable tolerance of the control sample determined? (X if the acceptable tolerance for the control sample is frequently not achieved				
7.6 When a result is unsatisfactory, are corrective actions taken and recorded?  (**X* if no corrective actions have been taken)				
7.7 Does the laboratory correct the sample weight for moisture content?				
7.8 If the weight is corrected, how is the moisture content determined?				
7.9 Does the laboratory record the sample weight taken?				

#### **UK Flour Millers Laboratory Audit - Checklist** EQUIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15) Conform Non-Conform 8. **PROTEIN by DUMAS** Based on FTWG 19 8.1 What type(s) of machine(s) used? Ouote make and model. 8.2 When was the machine last serviced? Date Serviced by Does the laboratory have a suitably documented method? (X if there is no documented method in place) Does the method use a conversion factor of 5.7 for wheat samples? 8.4 ( if 5.7 is not used)8.5 How often does the laboratory measure the nitrogen chemical standard? (X if the laboratory does not measure the chemical standard at least once during each day the machine is in use and after any major maintenance)

(X) if the laboratory does not measure the blank at least once during each day of machine use)
(X) if the laboratory does not measure the blank after the machine has been idle for more than

( $\mathbf{x}$  if the laboratory does not measure at least 5 blanks following failure to achieve  $0.00 \pm 0.02\%$ )

(X) if the laboratory does not measure two samples of known protein each day the machine is

Does the laboratory measure at least two samples of known protein content each day?

8.6

8.7

one hour)

in use)

How often does the laboratory determine the blank?

EQU	IPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform
9	MOISTURE CONTENT by OVEN METHOD Based on FTWG 08 (if this method is used)		
9.1	What type(s) of oven(s) used? Quote make and model, and confirm if fitted with a fan.		
9.2	When was the oven last calibrated and / or serviced?  Calibration date  Calibrated by  Service date  Serviced by  Does the calibration/service confirm that the oven can maintain 130° to 133°C  (**X if the calibration indicates the oven is not capable of maintaining 130° to 133°C)		
9.3	Does the laboratory have a suitably documented method?  (**X if there is no documented method)		
9.4	Which thermometer is used?  Quote identification number  (X if the thermometer is not capable of reading in 1°C increments)		
9.5	Are moisture dishes compliant with $50 - 60$ mm diameter and not $> 25$ mm in height? ( $\mathbf{X}$ if the dishes are not the correct dimensions)		
9.6	Are tins dried in the oven and cooled in the desiccator prior to use? (X if this operation is omitted)		
9.7	After sample insertion, does the oven return to temperature within 30 minutes? (X if the over takes longer than 30 minutes to return to temperature)		
9.8	Does the timing of the period that the samples are in the oven commence when the oven reaches 130°C? (**X* if timing is started before 130°C is attained)		
9.9	Are all weights recorded to an accuracy of at least 0.001g? (X if weights are recorded to less than 3dp)		

	UK Flour Millers Laboratory Audit - Checklist						
EQU	IPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)		Conform	Non- Conform			
10 and a	WHEAT AND FLOUR ANALYSIS by NIR Based on the principles in FTWG 1 pplicable to all NIR calibrations for wheat and flour	4					
10.1	What type(s) of machine (s) is/are used? Quote make and model						
10.2	When were the instruments calibrations last reviewed/adjusted and the instrument serviced?  Calibration review/adjustment date  Calibration reviewed/adjusted	by					
	(X if the instrument's calibrations have not been reviewed within the last 12 months)						
	Service date Serviced by						
10.3	Does the laboratory have suitably documented methods in place to cover:  Validation of instrument and calibration performance (note that this may be undertaken by extern contractors or instrument manufacturers in which case the laboratory should maintain suitable records from the contractor or instrument supplier)  Check samples  Measuring of test samples  (**X if the laboratory does not have documented method(s) in place to cover calibration etc.)	nal					
10.4	Are the instrument calibrations traceable to the appropriate or stated reference method e.g. Dum for protein (X if the calibrations are not traceable to the appropriate or stated reference method)	as					
10.5	How often does the laboratory measure known samples? (**X if the laboratory does not measure at least one check sample each day the machine is used	)					
10.6	Does the laboratory measure and record the temperature of samples?						

EQUIPM	ENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform
11. I	HECTOLITRE WEIGHT Based on FTWG 20 (Kern 1 Litre Chondrometer)		
11.1	What type(s) of machine(s) is/are used?  Quote capacity, make and model.		
11.2	When was the machine last calibrated and / or serviced?  Calibration date Calibrated by (**X if the machine AND/OR balance have not been calibrated within the last 12 months)		
	Service date Serviced by		
11.3	Does the laboratory have a suitably documented method?  (**X* if the laboratory does not have a documented method in place)		
11.4	Does the method require that the filling operation is carried out over approximately 12 seconds, with the grain flowing into the middle of the tube?		
11.5	Does the method clearly state that the chondrometer, when filled with a test sample, shall not be shaken?		
11.6	State the number of control samples measured and how frequently they are measured. (X if the laboratory does not measure at least one control sample during each day of use of the instrument)		
11.7	How are the values and acceptable tolerances for the control samples determined?  (X if the value of the check samples is not traceable to the Kern chondrometer)		

EQUIPMI	NT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform
(1) "	CREENINGS Based on UK Flour Millers RECOMMENDED CODE OF PRACTICE FOR MILL INTAKE" dated by 2005 and (2) Draft method: Screenings and Admixture dated 06/05/03		
12.1	What sieve types are used? (★ if the sieves are not 3.5mm and 2.0mm slotted sieves)		
12.2	When were the sieves last calibrated? Date Calibrated by (X if the sieves have not been calibrated or checked against calibrated sieves or reference materials during the last 5 years)		
12.3	Does the laboratory have a suitably documented method?  (**X* if the laboratory does not have a documented method in place)		
	Does the method state that all slot apertures must be aligned?  Does the method state that the sample recovery must be ≥99.5%. If not, test must be repeated?		
12.4	What sample size is used for the screening test?		
	a. *Screenings = Non wheat material retained on 3.5mm sieve + throughs of 2.0mm sieve		
	*Admixture = Wt of miscellaneous impurities found retained on the 2.0mm sieve ( <b>X</b> if screenings and / or admixture calculated differently to *)		

	UK Flour Millers Laboratory Audit - Checklist					
EQU	IPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform			
13.	HARDNESS Based on FTWG 22 (Perten Single Kernel Characterisation System)					
13.1	When was the machine last serviced and / or calibrated?  Service date  Calibration date  Calibrated by  (**X if the machine has not been calibrated within the last 12 months)					
13.2	Does the laboratory have suitably documented methods in place to cover: Calibration of the instrument, Check samples, Measuring of test samples (X if the laboratory does not have documented method(s) in place to cover calibration checks and measuring of test samples)					
13.3	How often does the laboratory measure known samples? (X if the laboratory does not measure at least one hard and one soft (where appropriate) check sample each day the instrument is used)					

	<b>UK Flour Millers Laboratory Audit - Checklist</b>				
EQUII	MENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)	Conform	Non- Conform		
14.	GLUTEN WASHING Based on FTWG 13 (Falling Number Glutomatic)				
State	the method employed:				
14	What type(s) of machine(s) is/are used?  Quote make and model.				
14	When was the machine last serviced and / or calibrated?  Service date  Calibration date  Serviced by  Calibrated by				
	If a Glutomatic, does the calibration include Dough mixing time $(20s\pm0.5s)$ ? Washing time $(5 \min\pm0.5s)$ ? Pumped volume $(265\text{ml}\pm15\text{ml})$ ? Temperature $(22^{\circ}\text{C}\pm1^{\circ}\text{C})$ ? Sieve hook distance $(0.7\pm0.05\text{mm})$ ?				
	(X if the machine is not calibrated at least annually)				
14	Does the laboratory have a suitably documented method in place (X if the laboratory does not have a documented method in place)				
14	How often does the laboratory measure known samples?  (X if the laboratory does not measure a known sample at least once/ day the machine is in use)				
14	5 How does the laboratory determine the acceptable value of the check samples?				

EQUIPM	EQUIPMENT CALIBRATION and OPERATION (7, 8 & 9 13, 14 & 15)				
15. VIS	15. VISUAL EXAMINATION				
15.1	Does the laboratory have a suitably documented method?  (**X* if the laboratory does not have a documented method in place)				
15.2	Does the laboratory use the Wheat Testing, Grain Analyst Training CD rom prepared by Home Grown Cereals Authority (2004) for wheat examination training purposes?				
15.3	Does the method include visual examination for insects?				
	Is there a reference document used to identify the various types of insects?				
	Do staff receive formal insect identification training?				
15.4	Does the method include visual examination for foreign grains?				
	Is there a reference document used to identify the various types of foreign grains?				
	Do staff receive formal training to identify foreign grains?				
	Have staff been trained to identify pink grains?				
	Have staff been trained to identify ergot?  (X if the laboratory staff have not been trained to identify pink grains and/or ergot)				
15.5	Does the method include visual examination for foreign bodies?				
	Is there a reference document used to identify foreign bodies?				
	Do staff receive formal training to identify foreign bodies?				
15.6	Does the method include any contaminants not listed above?				

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	UK Flour Millers Laboratory Audit - Checklist			
		Conform	Non- Conform	
16. 8	SENIOR MANAGEMENT COMMITMENT TO THIS SCHEME (4)			
16.1	Does the laboratory have a clearly defined and documented quality policy statement? (X if no quality policy in place)			
16.2	Does the Quality Policy state the senior management (Board level) commitment to this scheme?  (**X* if the Quality Policy does not confirm senior management commitment).			
16.3	State the document number, the date and the signature displayed on the Quality Policy statement.			

UK Flour Millers Laboratory Audit - Checklist			
	Conform	Non- Conform	
17. QUALITY MANUAL			
17.1 Does the laboratory have a documented quality manual in place (however named)?			
17.2 Does the manual have a scope which covers the requirements of this Standard?			

<b>UK Flour Millers Laboratory Audit - Checklist</b>					
		Conform	Non- Conform		
18.	ORGANISATIONAL STRUCTURE, AREAS OF RESPONSIBILITY AND AUTHORITY (3 & 4)				
18.1	Does the laboratory have a documented organisational structure?				
18.2	Are areas of responsibility documented in a Quality manual or by job descriptions? (**X* if areas of responsibility are not defined at all)				
18.3	Who has the authority to alter and/or adjust calibrations? X?				
18.4	Where is this authority documented?				
18.5	Are laboratory staff involved with the negotiation of wheat contracts?  (**X* if laboratory staff are involved in the negotiation of wheat purchase contracts)				

<b>UK Flour Millers Laboratory Audit - Checklist</b>				
		Conform	Non- Conform	
19.	LABORATORY FACILITIES (5 & 6)			
19.1	Is the laboratory appropriate for the nature of the work undertaken?  (X if the facilities provided do not permit the production of accurate results)			
19.2	Is the laboratory maintained in good condition, suitably located and of adequate size, with suitable lighting in the testing areas?			

<ul> <li>20. STAFFING (11)</li> <li>20.1 Does the laboratory have a documented policy for staff training?</li> <li>20.2 How does the laboratory ensure that staff performance and comp maintained? (X if laboratory cannot demonstrate that staff performance and quality systems?</li> <li>20.3 Were all appropriate staff able to demonstrate an understanding of quality systems?</li> <li>20.4 How does the laboratory ensure that all operators can achieve the reproducibility where feasible) for all tests within the scope of ac (X if laboratory cannot demonstrate that staff can achieve repe where feasible) of all tests within the scope of accreditation where reproducibility where feasible) are stated within the FTWG method.</li> </ul>		_
20.2 How does the laboratory ensure that staff performance and comp maintained?  (**X* if laboratory cannot demonstrate that staff performance and 20.3 Were all appropriate staff able to demonstrate an understanding of quality systems?  Internal Proficiency  20.4 How does the laboratory ensure that all operators can achieve the reproducibility where feasible) for all tests within the scope of ac (**X* if laboratory cannot demonstrate that staff can achieve repe where feasible) of all tests within the scope of accreditation where		
maintained? (**X if laboratory cannot demonstrate that staff performance and 20.3 Were all appropriate staff able to demonstrate an understanding of quality systems?  Internal Proficiency 20.4 How does the laboratory ensure that all operators can achieve the reproducibility where feasible) for all tests within the scope of ac (**X if laboratory cannot demonstrate that staff can achieve repe where feasible) of all tests within the scope of accreditation where		
20.3 Were all appropriate staff able to demonstrate an understanding of quality systems?  Internal Proficiency  20.4 How does the laboratory ensure that all operators can achieve the reproducibility where feasible) for all tests within the scope of ac (✗ if laboratory cannot demonstrate that staff can achieve repe where feasible) of all tests within the scope of accreditation where		
How does the laboratory ensure that all operators can achieve the reproducibility where feasible) for all tests within the scope of ac (**X* if laboratory cannot demonstrate that staff can achieve repe where feasible) of all tests within the scope of accreditation where		
	editation? ability (and reproducibility repeatability (and	
Training Records  20.5 Do laboratory staff who carry out analyses have training records them?  (★ if staff do not have training records for the tests carried out)	r all tests carried out by	

	UK Flour Millers Laboratory Audit - Checkl	ist	
		Conform	Non- Conform
21.	DOCUMENT CONTROL (15)		
21.1	Does the laboratory have a document control system in place?		
21.2	Does the system ensure that all documents are uniquely identified?		
	Document number		
	Issue number		
	Date of issue		
	All pages within each document numbered Page X of Y		
21.3	Are all documents in use properly authorised?		
21.4	Who is responsible for the control of documents within the laboratory?		
21.5	Is a procedure in place to ensure that obsolete documentation is rescinded, and if appropriate, replaced with a revised version?		

	UK Flour Millers Laboratory Audit - Check	list	
		Conform	Non- Confo
22.	HANDLING TEST SAMPLES (16)		
22.1	Does the laboratory have a documented procedure for the handling of test samples?  (X if no documented procedure is in place)		
	RACEABILITY Can the laboratory demonstrate that traceability is maintained at all times, with the final report being traceable to the arrival of the sample in the laboratory and all result records?  (X if laboratory cannot demonstrate sample traceability is maintained at all times)		
S	tate sample traced and records examined.		
			l

cords (18) es the laboratory have a documented procedure for record keeping and control of records? if no documented procedure in place) es the procedure identify how the laboratory will ensure that paper records are legible if genuine (permanent ink - not in pencil)?		
es the laboratory have a documented procedure for record keeping and control of records? if no documented procedure in place) es the procedure identify how the laboratory will ensure that paper records are legible		
if laboratory persistently record key data in pencil)		
es the procedure state that an amendment to a paper record must take the form of crossing the result, clearly stating the amended result, and then signing and dating the amendment?		
es the procedure state that amendments can only be made by authorised persons? if laboratory results can be altered by unauthorised staff)		
here the laboratory has electronic records, what steps have been taken to minimise the risk of ords being amended by unauthorised staff?		
e	the result, clearly stating the amended result, and then signing and dating the amendment?  Is the procedure state that amendments can only be made by authorised persons?  If laboratory results can be altered by unauthorised staff)  There the laboratory has electronic records, what steps have been taken to minimise the risk of	the result, clearly stating the amended result, and then signing and dating the amendment?  Is the procedure state that amendments can only be made by authorised persons?  If laboratory results can be altered by unauthorised staff)  It is the procedure state that amendments can only be made by authorised persons?  If laboratory results can be altered by unauthorised staff)  If the procedure state that amendments can only be made by authorised persons?  If laboratory results can be altered by unauthorised staff)

	UK Flour Millers Laboratory Audit - Checkl		T
		Conform	Non- Conform
24.	COMPLAINTS (18)		
24.1	Does the laboratory have a documented procedure in place for the handling, investigation and resolution of complaints or disputes over test results? (X if no documented procedure in place)		
24.2	Who has the responsibility for managing complaints / disputes over test results?		
24.3	Does the laboratory keep records of complaints / disputes? (X if records of complaints / disputes are not maintained)		
24.4	Can the laboratory demonstrate that:		
	Complaints are investigated in a timely manner?		
	Corrective actions, where appropriate, are taken to prevent recurrence?		
24.5	Follow-up actions, if required, are taken and recorded (**X if the laboratory cannot demonstrate that, where appropriate, follow-up actions are taken following a complaint or dispute)		

	UK Flour Millers Laboratory Audit -	Checklist Conform	Non-
			Confo
25.	APPROVAL OF SUPPLIERS (10)		
25.1	Does the laboratory have a record of approved suppliers? ( <b>X</b> if no list of approved suppliers is available)		
25.2	Does the list include service (e.g. calibration) providers? (X if the list of approved suppliers does not include service providers)		
25.3	Does the list include sub-contract laboratories?		
25.4	How does the laboratory approve its suppliers?		
25.5	Does the laboratory monitor and review supplier performance?		

## APPENDIX A

## **EXAMPLE**



## **Laboratory Audit Summary Report**

	Laboratory	ARA CARRON	
	Location A Color	II SUMMARY REPORT	
(g)	01100		
1 dest	Audit Date		Ļ
	Auditor		
MAL.			9

#### **SUMMARY OF AUDIT FINDINGS**

No major non-conformances, therefore the laboratory is to be considered for accreditation, subject to their UK Flour Millers Proficiency Scheme results.
Major non-conformances have been found. However, these can be cleared by postal evidence, which must be submitted to the UK Flour Millers Review Panel.
Major non-conformances have been found, which can only be cleared by a re-audit of the non-conformance. This partial re-audit must be performed at the earliest possible date and at most within the next three months. The report for the re-audit must be submitted to UK Flour Millers with the original audit report.
The non-conformances are of a nature that certification shall not be considered. In this case the laboratory shall undergo a full re-audit and, if the laboratory holds a current UK Flour Millers Laboratory Accreditation Certificate, the certificate may be withdrawn according to the decision of UK Flour Millers.

## Auditor's summary of the audit

Number of Non-Conformities Raised		
Major non-conformances		
Minor non-conformances		
Observations		

**AUDITOR'S COMMENTS:** 



## **Audit Acknowledgement**

Auditor	Date	

The above summary of the audit is acknowledged by:-

Laboratory	
Danragantativa	Data

UK Flour Millers Checklist

## APPENDIX B

UK Flour Millers Laboratory Audit Non-Conformances Report

## **EXAMPLE**

UK Flour Millers Checklist



## LABORATORY AUDIT NON-CONFORMANCES REPORT

Laboratory:	Audit date:
<b>Location:</b>	Auditor:

Non- Conformity No.	Detail	MAJOR MINOR OBS	UK Flour Millers standard clause	Reference within the UK Flour Millers Checklist
1.	Supplier Approval The laboratory does not have a system in place for the approval of suppliers and does not have a list of approved suppliers in the suppliers	MAJOR	10	14
2.	Falling Nur Leville The Happelg falling number machine had not been levilled or calibrated, with the timer last Crated in house on 8/8/02.	MAJOR		21
3.	Handling Test Samples The laboratory does not have a documented procedure for the handling of test samples.	MAJOR	16	11

The above non-conformances are agreed and acknowledged by:-

Auditor	Date		
Laboratory			
Representative	Date		



# The Association representing virtually 100% of the industry

Flour plays a vital role in feeding and nourishing the nation through breakfast, lunch, tea and dinner. On weekdays, birthdays, holidays and matchdays

UK flour milling industry that provides quality, nutritious and safe products.

The flour milling industry plays a vital role in feeding and nourishing the nation. Keeping the industry operational is, therefore, of national importance, and UK Flour Millers is proud of the varied and ongoing part they play in helping this remain a reality.

As a trade association, UK Flour Millers sits at the heart of the industry. Our role as a representative body for the industry includes collating and sharing the collective view and position of our members. As the 'industry voice', we speak on behalf of our members to government, policy makers, the media and other stakeholders.

