

Role of the UK customs laboratory in combating food and consumer goods fraud

Louise Gearey 22nd June 2016

'Food fraud encompasses deliberate and intentional substitution, addition, tampering, or misrepresentation of food, food ingredients, or food packaging; or false or misleading statements made about a product for economic gain.'

Chris Elliot, September 2014



Campden BRI's role in UK Customs contracts

- HM Revenue & Customs dealing with all aspects of classification and imports, representation in Brussels, criminal investigations.
- Rural Payments Agency (RPA) Olive oil analysis and other schemes.



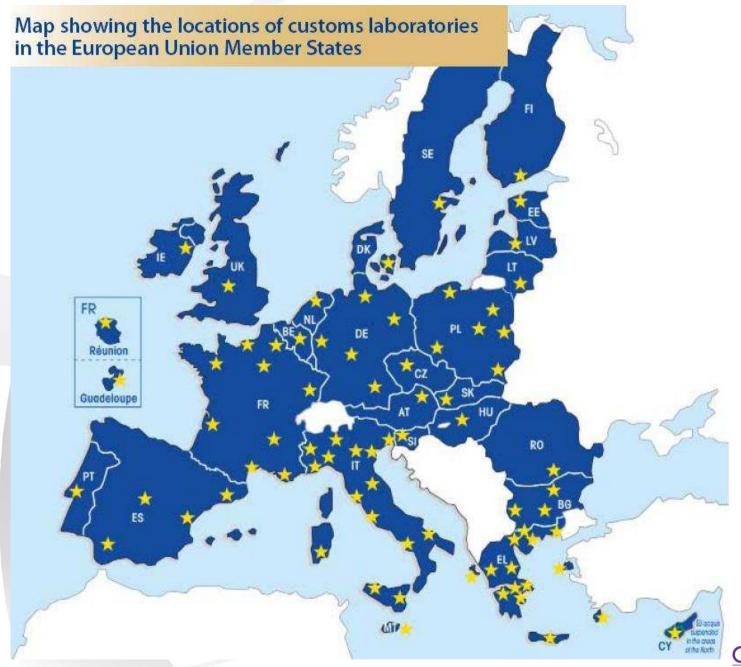
What are customs laboratories like?



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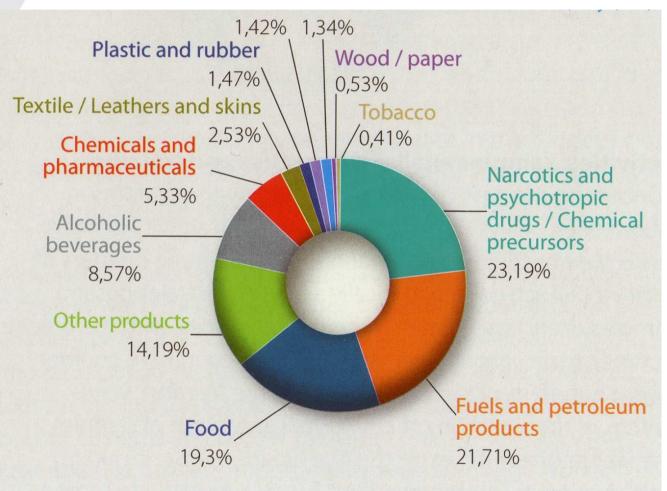








Types of samples analysed









- Established in 1999
- Provides structure for coordination and networking under the lead of the European Commission.
- Six integrated 'Actions'



Harmonised System



- HS Nomenclature:
 - -21 Sections, 99 Chapters
 - 5,000 commodity groups
 - 6-digit code (8-digit in EU)
- Published annually as Commission Regulation
- Adopted into UK law as the Integrated Tariff of the United Kingdom



Meursing (Additional) Code Requirements

There are four test results that are required to obtain a Meursing Code, these are:

- 1. Sucrose (including invert sugar)
- 2. Starch/Glucose
- 3. Milk Fat
- 4. Milk Protein





Additional codes (3 digits) for certain goods covered by Regulation (EC) No. 3448/93

Starch Glucose(¹) (% by weight) Sucrose/Invert sugar/ Isoglucose(²) (% by weight)		≥0 - <5					≽5-<25					≥25 - <50				≥50 - <75			- ≽75	
		≥0 <5	≥5 <30	≥30 <50	≥50 <70	≽70	≥0 <5	≥5 <30	≥30 <50	≥50 <70	≽70	≥0 <5	≥5 <30	≥30 <50	≥50	≥0 <5	≥5 <30	≥30	≥0 <5	≥ 5
Milk Fat (% by weight) ≥0 - <1.5	Milk Proteins(3) (4) (% by weight) ≥0 < 2.5 ≥2.5 < 6 ≥6 < 18 ≥18 < 30 ≥30 < 60 ≥60	000 020 040 060 080 800	001 021 041 061 081 801	002 022 042 062 082 802	003 023 043 063 083 X	004 024 044 064 084 X	005 025 045 065 085 805	006 026 046 066 086 806	007 027 047 067 087 807	008 028 048 068 088 X	009 029 049 069 X X	010 030 050 070 090 810	011 031 051 071 091 811	012 032 052 072 092 X	013 033 053 073 X X	015 035 055 075 095 X	016 036 056 076 096 X	017 037 057 077 X X	758 768 778 788 X X	759 769 779 789 X
≥1.5 <3	≥0 < 2.5 ≥2.5 < 6 ≥6 < 18 ≥18 < 30 ≥30 < 60 ≥60	100 120 140 160 180 820	101 121 141 161 181 821	102 122 142 162 182 822	103 123 143 163 183 X	104 124 144 164 X	105 125 145 165 185 825	106 126 146 166 186 826	107 127 147 167 187 827	108 128 148 168 188 X	109 129 149 169 X X	110 130 150 170 190 830	111 131 151 171 191 831	112 132 152 172 192 X	113 133 153 173 X X	115 135 155 175 195 X	116 136 156 176 196 X	117 -137 -157 -177 X X	798 808 818 828 X X	799 809 819 829 X X
≥3 <6	≥0 < 2.5 ≥2.5 < 12 ≥12	840 200 260	841 201 261	842 202 262	843 203 263	844 204 264	845 205 265	846 206 266	847 207 267	848 208 268	849 209 269	850 210 270	851 211 271	852 212 272	853 213 273	855 215 275	856 216 276	857 217 X	858 220 838	859 221 X
≽ 6 < 9	≥0 <4 ≥4 <15 ≥15	860 300 360	861 301 361	862 302 362	863 303 363	864 304 364	865 305 365	866 306 366	867 307 367	868 308 368	869 309 369	870 310 370	871 311 371	872 312 372	873 313 373	875 315 375	876 316 376	877 317 X	878 320 378	879 321 X
≥9 <12	≥0 <6 ≥6 <18 ≥18	900 400 460	901 401 461	902 402 462	903 403 463	904 404 464	905 405 465	906 406 466	907 407 467	908 408 468	909 409 X	910 410 470	911 411 471	912 412 472	913 413 X	915 415 475	916 416 476	917 417 X	918 420 X	919 421 X
≥12 <18	≥0 <6 ≥6 <18 ≥18	940 500 560	941 501 561	942 502 562	943 503 563	944 504 564	945 505 565	946 506 566	947 507 567	948 508 568	949 509 X	950 510 570	951 511 571	952 512 572	953 513 X	955 515 575	956 516 576	957 517 X	958 520 X	959 521 X
≥18 <26	≥0 <6 ≥6	960 600	961 601	962 602	963 603	964 604	965 605	966 606	967 607	968 608	969 609	970 610	971 611	972 612	973 613	975 615	976 616	977 X	978 620	979 X
≥26 <40	≥0 <6 ≥6	980 700	981 701	982 702	983 703	984 X	985 705	986 706	987 707	988 708	X	990 710	991 711	992 712	X	995 715	996 716	X X	X	X X
≥40 <55 ≥55 <70 ≥70 <85 ≥85		720 740 760 780	721 741 761 781	722 742 762 X	723 X X X	X X X	725 745 765 785	726 746 766 786	727 747 X X	728 X X X	X X X	730 750 770 X	731 751 771 X	732 X X X	X X X	735 X X X	736 X X X	X X X	X X X	X X X

Note: < = less than; > = greater than or equal to. An X indicates where a combination cannot exist.

Seasoned poultry



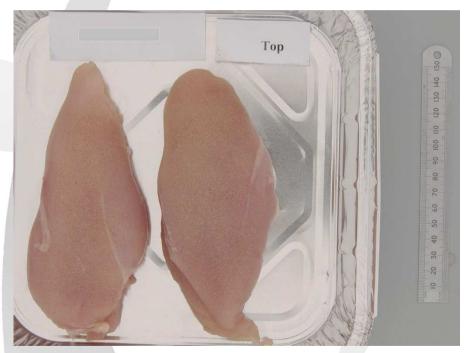
- Chapter 2 Meat and edible meat offal
- Chapter 16 Preparations of meat, or of fish, or of crustaceans, molluscs or of other aquatic invertebrates

Additional note 6a of Chapter 2 states:

Uncooked seasoned meats fall in Chapter 16. 'Seasoned meat' shall be uncooked meat that has been seasoned either in depth or over the whole surface of the products with seasoning either visible to the naked eye or clearly distinguishable by taste.



Assessment of samples







Seasoned poultry next steps?





Imported lamb





Imported 'lamb fat'?







Lamb fat?







Next steps?













- Comprises a high proportion of enforcement samples sent for analysis
- Often declared as other items, including:
 - Tea
 - Molasses
 - Insect repellent (citronella)
- It is necessary to confirm they are tobacco, and ascertain whether they are suitable for smoking



A close examination of shoes?







Tobacco declared as tea





Microscopic analysis confirmed the sample to be consistent with hand rolling tobacco.





Golden Virginia?



food and drink innovation

- The sample was seized as part of an investigation into counterfeit tobacco.
- The sample was analysed by GC/MS alongside genuine Golden Virginia hand rolling tobacco.
- Significant levels of benzoic acid, butylated hydroxytoluene, and propanoic acid were found only in the genuine sample.
- A significant level of sorbic acid was found only in the seized sample.

Counterfeit spirits

- The sample was seized from an individual arrested in connection with cigarette smuggling.
- Analysis showed a low alcohol content and an illegal level of methanol.
- GC/MS analysis clearly showed the presence of tert-butyl alcohol and isopropanol

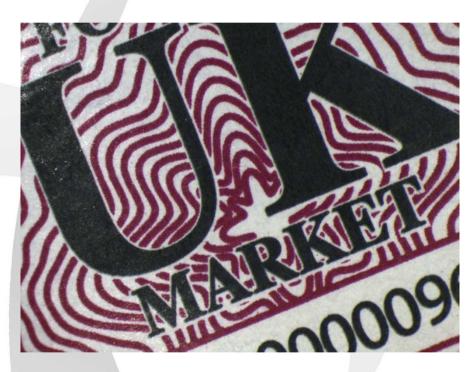




- Samples labelled as Teacher's whisky were received, along with rolls of duty paid labels.
- The whisky itself was analysed by GC/MS, and the labels were examined visually



































End

Any Questions?

