Sensory Analysis in SUA Nitra, Slovakia





DEGUSTATION I. (evaluation)

- From french word dégustation (tasting)
- naive panel
- word description
- expert explaining
- no limit for tasters
- no results for degustation



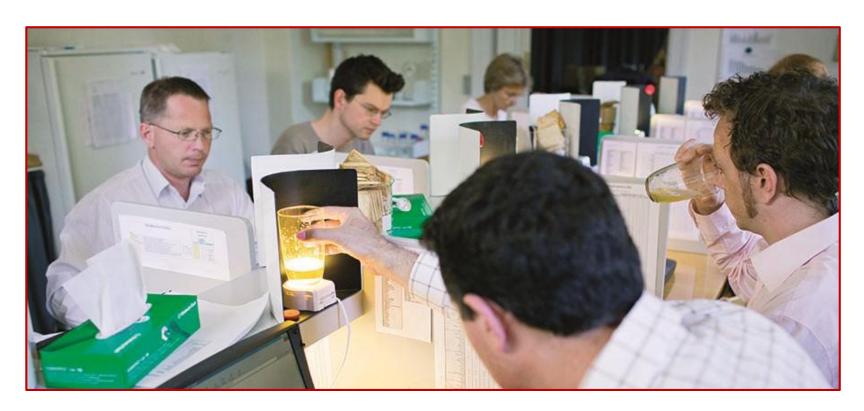
Organoleptic evaluation II.

- scoring points by group
- using forms
- attributes description
- amount of people is limited
- output is order of products



Sensory analysis III.

- Trained panel
- Standardized enviroment, test and conditions
- amount of people is limited on lab spots
- statistical analysis is part of measurement



Sensory analysis is multidisciplinary

connected on:

- Psychology
- Physiology
- Sociology
- Biology
- Chemistry
- Economic science (Marketing/Neuromarketing)
- Sensometrics



Legislative I.

- Laboratory methods standards
- ISO 8589 General guidance for sensory evaluation

 ISO 5496 – Training of assessors for odour recognition.

• ISO 8586:2014 Selection, Training of Panelist/Experts for sensory analysis ...

Legislative II.

- Description test
- Sensory Profile
- Flavour Profile
- Texture profile

- ISO 6658 čl. 5.4.2
- ISO 13299
- ISO 6564
- ISO 11036

Legislative III.

- EHK Norms (DOOR)
- Private Standards (BRC, IFS)
- ASTM (America)



Designation: E 1879 - 00

Standard Guide for Sensory Evaluation of Beverages Containing Alcohol¹



Designation: E 2299 - 03

Standard Guide for Sensory Evaluation of Products by Children¹



Designation: E 1490 - 03

Standard Practice for Descriptive Skinfeel Analysis of Creams and Lotions¹

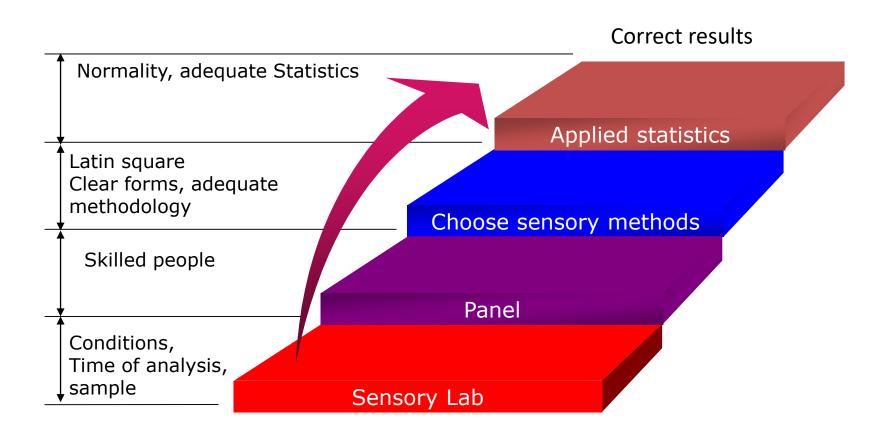


IMMEDIATE
VISUAL/TACTILE
EVALUATION
RUB-OUT
STEPS 4-6

· 20 MINUTE VISUAL / TACTICE EVALUATION

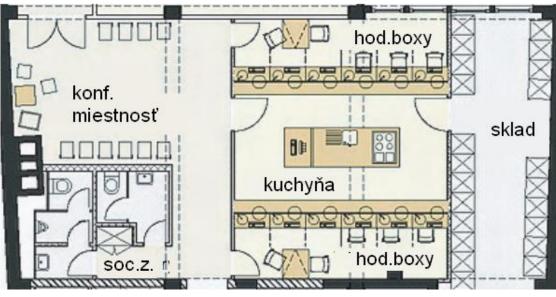
FIG. X2.4 Diagram for Test Evaluations

Sensory analysis instruments

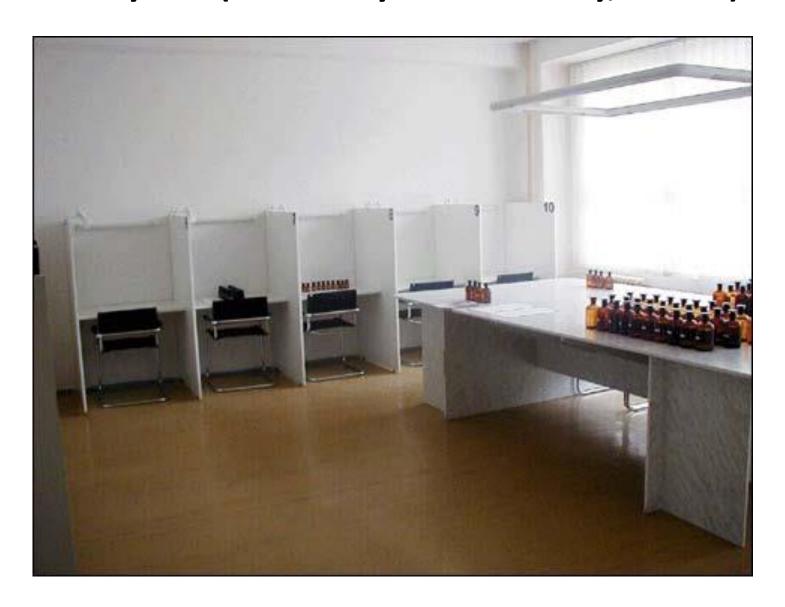


Sensory Lab (Acreditation Body Lab, Bratislava)





Sensory Lab (University of Veterinary, Košice)



Instrumental Sensory Analysis Equipment















Sample

- Enough amount
- Representative
- Eating temperature
- Anonymous
- 3 digit code marked
- Palate cleaners

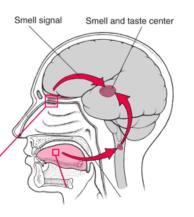


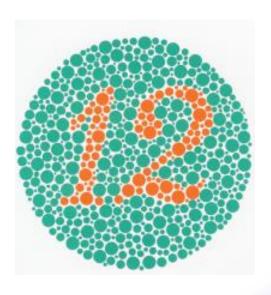
Assessor

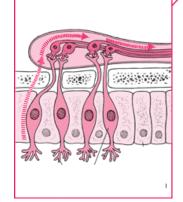


Certification process I.

1. Ishihara tests







2. Uknown odours



3. Tresholds for 5 basic tastes

Certification process II.

4. Taste memory (Intensity tests)



5 - 7. Ranking of smell/taste



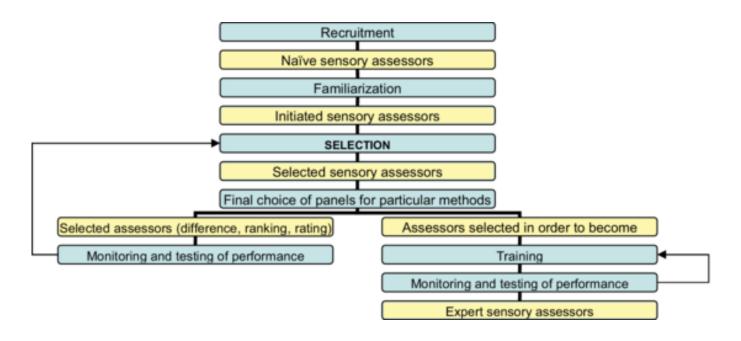
Certification process III.

8. Ordering of colour intensity









Slovak Certification Bodies

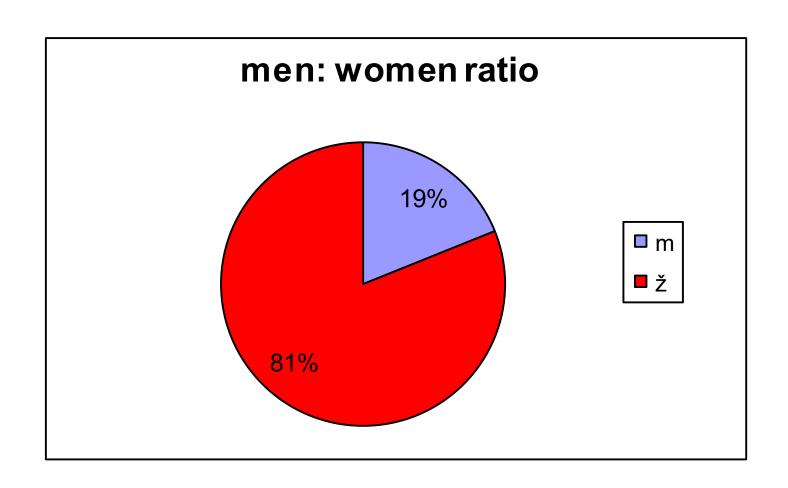
 Educational Courses of Sensory Analysis at SUA (MoES)

(Softdrinks, Beer, Wine... Coffee in Progress)

 Acredditation Process of Selected Sensory Assessors for Food and Animal Feed by ISO 17024:2012 (SNAS)

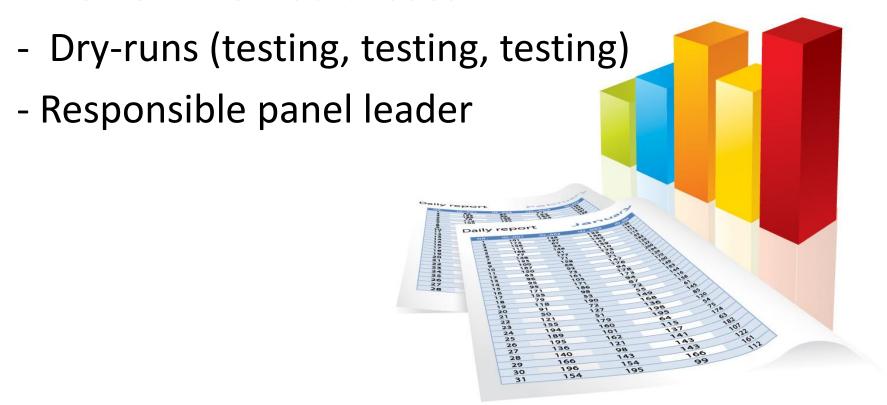
(Eurofins/BEL-NOVAMAN)

Comparison of Certified Slovak Assessors

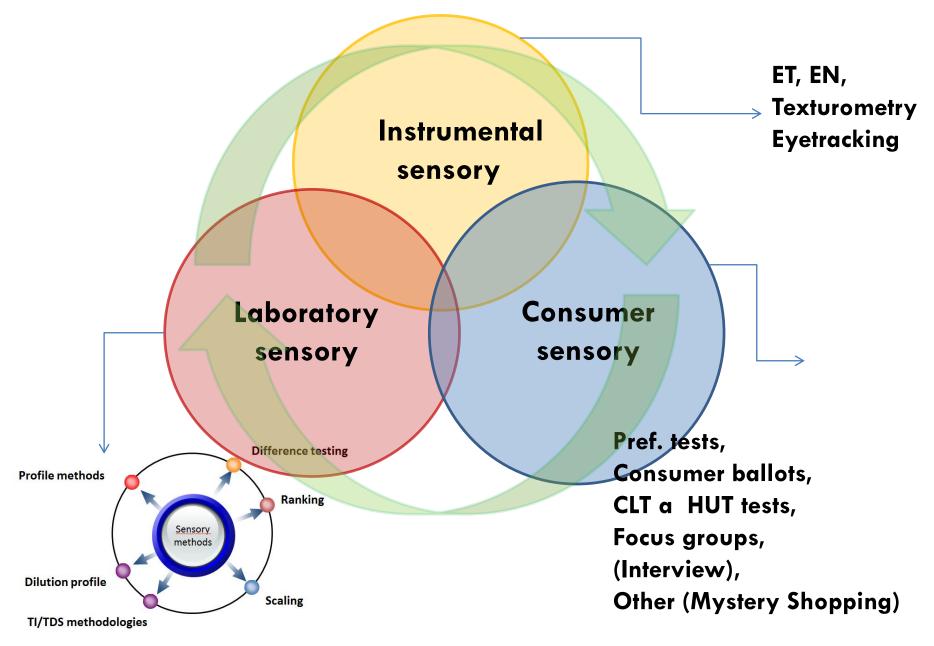


Methodology

- Clear forms
- (effective, focused on problem)
- Correct method choses



(sensory food science)

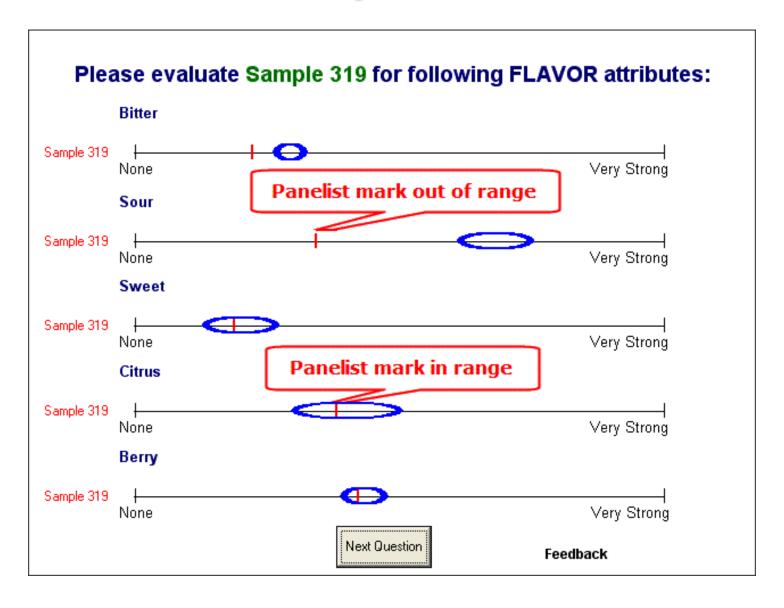


Classical "paper" forms



Kontakt (meno, em	ail, IM, telefón)		*nep	ovinné
Hodnotená komodi	ta	Pohlavie	M Ž Vek 15+ 2	15+ 35+ 45+
Dátum 1 2 3 4	5 6 7 8 9 10+ 20	+ 30+ / 1234567	8 9 10 11 12/ 2009 2	2010 2011
Celkový vzhľad (atr	aktivita):			
Celkový vzhľad (atra	aktivita): nevyhovujúci	priemerný	dobrý	vynikaj
		priemerný	dobrý	vynikaj
Zlý		priemerný	dobrý	vynikaj
Zlý		priemerný	dobrý	vynikaj

Sensory software



Sensometrics

- "treat" bad results

- Classify products to groups

- Analyze a panel performance

- Visualize results



Thank you for your attention



