Understanding and Testing Your Sense of Smell

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specializing in odor testing of air samples, commercial products, & materials.
Odor Parameters

- Concentration
- Intensity
- Descriptors
- Hedonic Tone
Olfactory Anatomy

- Olfactory Bulb (2)
- Turbinates
Understanding Your Sense of Smell

FRONTAL CORTEX
- Conscious Awareness
- Judgment

OLFACTORY BULBS
- Trigeminal Nerves “Feel”

LIMBIC SYSTEM
- Memory
- Immune System
- Emotions
- Hormones

Odorants

Olfactory Nerves: “hard wired”, specialized, 1000 genes, regenerate!
Odor Sensitivity Test Kit
Tests Your Olfactory Sensitivity

• 1-butanol is a well-documented stimulant odorant used commonly in reference scales (ASTM and CEN).

• Randomized response worksheets and standardized presentation method.

Test Procedure on www.nasalranger.com Web site following the Nasal Ranger Manual
Smell Bell of Normal Population

Percentage of Population

Anosmic 3 4 5 6 7 8 9 10 11 12 13 Hypersensitive

5 % tile <= 5 % tile =>
State Agency Group Score (37 Inspectors) (example)

The group’s average: 7.6
Questions/Comments?