

INGREDIENT IDENTITY

Name	Brown Sugar
IUPAC name	Not relevant.
CAS no	None.
EINECS no.	Not relevant.
Molecular formula	Not relevant.
Structural formula	Not relevant.
Molecular weight (g/mol)	Not relevant.

REGULATORY OR AUTHORITATIVE STATUS

FEMA no.	Generally recognised as safe as a flavour ingredient. GRAS List Number 3.
CoE no.	2100 Listed by the Council of Europe as acceptable for use in food.
Flavis no.	Not specified.
JECFA no.	Not specified.
ADI	Not specified.
FDA	Not specified.
Food level	Not specified
Natural status	Not specified

Tobacco Product related Chemical and Biological Studies for ingredients added as a mixture

Smoke Chemistry		
Research Org	Level Tested %	Comment
BAT	6.20000	At maximum application level this ingredient is not associated with significant increases in levels of Hoffmann analytes in smoke.

Ames Activity		
Research Org	Level Tested %	Comment
BAT	6.20000	Within the sensitivity and specificity of the system the Ames activity of the cigarette smoke condensate was not increased by the addition of the ingredient.

Micronucleus		
Research Org	Level Tested %	Comment
BAT	6.20000	Within the sensitivity of the in vitro micronucleus assay the activity of the cigarette smoke condensate was not increased by the addition of the ingredient.

Neutral red		
Research Org	Level Tested %	Comment
BAT	6.20000	Within the sensitivity of the test system the in vitro cytotoxicity of the cigarette smoke condensate was not increased by the addition of the ingredient.

Inhalation		
Research Org	Level Tested %	Comment
BAT	6.20000	The results indicate that the addition of the ingredient had no discernible effect on the inhalation toxicity of mainstream smoke.

References:

Baker, R.R. and Bishop, L.J., 2005. The pyrolysis of non-volatile tobacco ingredients using a system that simulates cigarette combustion conditions. Journal of Analytical and Applied Pyrolysis, 74, 145-170.

Baker, R.R., Da Silva, J.R.P., Smith, G., 2004a. The effect of tobacco ingredients on smoke chemistry. Part 1: Flavourings and additives. Food and Chemical Toxicology, 42S, S3-S37.

Baker, R.R., Da Silva, J.R.P., Smith, G., 2004b. The effect of tobacco ingredients on smoke chemistry. Part 2: Casing ingredients. Food and Chemical Toxicology, 42S, S39-S52.

Baker, R.R., Massey, E.D., Smith, G., 2004c. An overview of the effects of tobacco ingredients on smoke chemistry and toxicity. Food and Chemical Toxicology, 42S, S53-S83.