

Sodium carboxymethyl cellulose

Toxicological Data on the Unburnt Ingredient

[+ve, positive; -ve, negative; ?, equivocal; with, with metabolic activation; without, without metabolic activation]

In vitro

Test system	Test conditions	Endpoint	Activation	Result	References
Hamster fibroblasts	Up to 2.8 mg/ml of the sodium salt, 48 hr incubation, cells assessed for chromosome aberrations. Highest conc caused 50% growth inhibition	Chromosome damage	without	-ve	Ishidate <i>et al.</i> 1984; Ishidate & Odashima, 1977
<i>Salmonella typhimurium</i> strains TA92, TA94, TA98, TA100, TA1535, TA1537, TA1538	Four studies (plate and suspension assays) on the sodium salt at concs up to 10% or up to 5 mg/plate	Mutation	with and without S9 from liver, lung or testes of rat, mouse or monkey	-ve in all four studies	Litton Bionetics, 1975; Litton Bionetics, 1980; Ishidate <i>et al.</i> 1984

References

Ishidate M. & Odashima S. (1977). Mutation Res. 48, 337.

Ishidate M. *et al.* (1984). Fd cosmet. Toxic. 22, 623.

Litton Bionetics (1975). Unpublished report submitted to WHO by US FDA (cited in JECFA, 1990b).

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