

メチルセルロース（CAS no. 9004-67-5 他）

文献信頼性評価結果

示唆された作用							
エストロゲン	抗エストロゲン	アンドロゲン	抗アンドロゲン	甲状腺ホルモン	抗甲状腺ホルモン	脱皮ホルモン	その他*
—	—	—	—	—	—	—	—

○：既存知見から示唆された作用

—：既存知見から示唆されなかった作用

*その他：視床下部—下垂体—生殖腺軸への作用等

メチルセルロース類のうち、メチルセルロース、高粘度ヒドロキシプロピルメチルセルロース及び超高粘度ヒドロキシプロピルメチルセルロースについては、内分泌かく乱作用に関連する報告では、内分泌かく乱作用に関する試験対象物質として選定する根拠が得られなかった。

参考文献

- Hoshi N, Ueno K, Igarashi T, Kitagawa H, Fujita T, Ichikawa N, Kondo Y and Isoda M (1985a) Studies of hydroxypropylmethylcellulose acetate succinate on fertility in rats. *Journal of Toxicological Sciences*, 10 Suppl 2, 187-201.
- Hoshi N, Ueno K, Igarashi T, Kitagawa H, Fujita T, Ichikawa N, Kondo Y and Isoda M (1985b) Teratological studies of hydroxypropylmethylcellulose acetate succinate in rats. *Journal of Toxicological Sciences*, 10 Suppl 2, 203-226.
- Hoshi N, Ueno K, Igarashi T, Kitagawa H, Fujita T, Ichikawa N, Kondo Y and Isoda M (1985c) Effects on offspring induced by oral administration of hydroxypropylmethylcellulose acetate succinate to the female rats in peri- and post-natal periods. *Journal of Toxicological Sciences*, 10 Suppl 2, 235-255.
- Hoshi N, Ueno K, Igarashi T, Kitagawa H, Fujita T, Ichikawa N, Kondo Y and Isoda M (1985d) Teratological study of hydroxypropylmethylcellulose acetate succinate in rabbits. *Journal of Toxicological Sciences*, 10 Suppl 2, 227-234.
- Cappon GD, Fleeman TL, Rocca MS, Cook JC and Hurtt ME (2003) Embryo/fetal development studies with hydroxypropyl methylcellulose acetate succinate (HPMCAS) in rats and rabbits. *Birth Defects Research. Part B: Developmental and Reproductive Toxicology*, 68 (5), 421-427.
- Fritz H and Becker H (1981) The suitability of carboxymethylcellulose as a vehicle in reproductive studies. *Arzneimittel-Forschung*, 31 (5), 813-815.
- Ban SJ, Rico CW, Um IC and Kang MY (2012a) Hypoglycemic and antioxidative effects of hydroxyethyl methylcellulose in mice fed with high fat diet. *Food and Chemical Toxicology*, 50 (5), 1716-1721.
- Ban SJ, Rico CW, Um IC and Kang MY (2012b) Antihyperglycemic and antioxidative effects of Hydroxyethyl Methylcellulose (HEMC) and Hydroxypropyl Methylcellulose (HPMC) in mice fed with a high fat diet. *International Journal of Molecular Sciences*, 13 (3), 3738-3750.
- Hung SC, Anderson WH, Albers DR, Langhorst ML and Young SA (2011) Effect of hydroxypropyl methylcellulose on obesity and glucose metabolism in a diet-induced obesity mouse model. *Journal of Diabetes*, 3 (2), 158-167.
- Maki KC, Carson ML, Miller MP, Turowski M, Bell M, Wilder DM, Rains TM and Reeves MS (2008) Hydroxypropylmethylcellulose and methylcellulose consumption reduce postprandial insulinemia in overweight and obese men and women. *Journal of Nutrition*, 138 (2), 292-296.

(令和元年度第2回 EXTEND2016 化学物質の内分泌かく乱作用に関する検討会 資料1より抜粋)