

Bedrocan products used in human studies

Author (year)	Country	Indication	Type of study	Product used	Type of patient
de Bruijn et al. (2017)	Netherlands	Effects of cannabis on sweet taste intensity perception and liking	Double-blind, placebo-controlled, crossover	Vaporized Bedrocan cannabis (19% THC, variety <u>Bedrocan</u> ; 9% CBD , variety <u>Bedrolite</u>) and Bedrocan placebo cannabis (variety <u>Bedrocan</u>). 4 mg THC and booster dose 1 mg THC; 25 mg CBD and a booster dose 10 mg CBD	10 healthy recreational cannabis users

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Mokrysz et al. (2016)	United Kingdom	Comparison of the effects of cannabis between adolescents and adults on cognitive function, physical symptoms and subjective effects	Double-blind, placebo-controlled, mixed design	Vaporized Bedrocan cannabis (12% THC, variety Bedrobinol). 0.89 mg kg ⁻¹ cannabis per dose	20 healthy adolescent recreational cannabis users, 20 adult users
Lawn et al. (2016)	United Kingdom	Effects of cannabis on effort-related decision-making and reward learning	Double-blind, placebo-controlled, crossover	Vaporized Bedrocan cannabis (22% THC, variety Bedrocan). 8 mg THC per dose	17 healthy recreational cannabis users
De Sousa et al. (2016)	Netherlands	Effects of alcohol and cannabis on subjective aggression	Double-blind, placebo-controlled, crossover	Vaporized Bedrocan cannabis (12% THC, variety Bedrobinol), 200 µg/kg THC and a booster dose of 100 µg/kg THC	21 healthy regular cannabis users, 20 alcohol users, 20 controls

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Ramaekers et al. (2016b)	Netherlands	Effects of cannabis on neurocognitive function	Double-blind, placebo-controlled, three-way crossover	Vaporized Bedrocan cannabis (11% THC, variety Bedrobinol), 300 µg/kg THC per dose	122 healthy regular cannabis and cocaine users
Ramaekers et al. (2016a)	Netherlands	Effects of differences in tonic dopamine metabolism on the impact of cannabis and cocaine on impulse control and corticostriatal connectivity	Double-blind, placebo-controlled, three-way crossover	Vaporized Bedrocan cannabis (11% THC, variety Bedrobinol), 300 µg/kg THC and a booster dose of 150 µg/kg THC	122 healthy regular cannabis and cocaine users
Spronk et al. (2016)	Netherlands	Effects of cannabis and cocaine on error monitoring	Double-blind, placebo-controlled, three-way crossover	Vaporized Bedrocan cannabis (11% THC, variety Bedrobinol), 300 µg/kg THC and a booster dose of 150 µg/kg THC	61 healthy regular cannabis and cocaine users

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Theunissen et al. (2015)	Netherlands	Role of glutamatergic and cholinergic pathways in cannabis-induced memory impairment	Double-blind, placebo-controlled, six-way crossover	Vaporized Bedrocan cannabis (11% THC, variety Bedrobinol). 150 µg/kg THC per dose	15 healthy occasional cannabis users
van Wel et al. (2015)	Netherlands	Effects of trait impulsivity on subjective drug intoxication	Double-blind, placebo-controlled, three-way crossover	Vaporized Bedrocan cannabis (11% THC, variety Bedrobinol). 300 µg/kg THC and a booster dose of 150 µg/kg THC	122 healthy regular cannabis and cocaine users
Spronk et al. (2015)	Netherlands	Effects of cannabis and cocaine on reversal learning	Double-blind, placebo-controlled, three-way crossover	Vaporized Bedrocan cannabis (11% THC, variety Bedrobinol). 300 µg/kg THC and a booster dose of 150 µg/kg THC	61 healthy regular cannabis and cocaine users

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Kowal et al. (2015a; 2015b)	Netherlands	Effects of cannabis on divergent and convergent thinking; error monitoring	Double-blind, placebo-controlled, between-groups	Vaporized Bedrocan cannabis (19% THC, variety Bedrocan) and Bedrocan placebo cannabis (variety Bedrocan). 0 mg, 5.5 mg or 22 mg THC per dose	54/55 healthy regular cannabis users
Hunault et al. (2014)	Netherlands	Subjective effects of cannabis	Double-blind, placebo-controlled, crossover	Cigarettes with 700 mg tobacco + 300 mg Bedrocan cannabis (22% THC, variety Bedrocan). THC content was 29.3-69.4 mg per cigarette	24 healthy recreational cannabis users
Eisenberg et al. (2014)	Israel	Pharmacokinetics, safety, tolerability, efficacy, and ease of use of a novel vaporizer in chronic neuropathic pain	Open-label, single-dose	Vaporized Bedrocan cannabis (20% THC, variety Bedrocan). 15.1 ± 0.1 mg cannabis per dose	8 chronic neuropathic pain patients

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Battistella et al. (2013)	Switzerland	Effects of cannabis on driving skill	Double-blind, placebo-controlled, crossover	Cannabis cigarettes with Bedrocan cannabis (11% THC, variety Bedrobinol). 42 mg THC per dose	31 healthy occasional cannabis users
Fabritius et al. (2013)	Switzerland	Cannabinoid concentrations in oral fluid and blood between occasional and regular cannabis smokers	Placebo-controlled, crossover	Cannabis cigarettes with Bedrocan cannabis (11% THC, variety Bedrobinol). 0.7 g cannabis per cigarette	48 healthy regular cannabis users, 25 occasional users
van Wel et al. (2013)	Netherlands	Effects of cannabis on psychomotor function and impulsivity	Double-blind, placebo-controlled, three-way crossover	Vaporized Bedrocan cannabis (11% THC, variety Bedrobinol). THC 300* µg·kg ⁻¹ per dose	61 healthy heavy cannabis and cocaine users

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Theunissen et al. (2012)	Netherlands	Investigation into differences in ERP components between heavy and occasional cannabis users	Double-blind, placebo-controlled, two-way crossover	Cigarettes with Bedrocan cannabis (13% THC, variety Bedrobinol). 500 µg/kg THC per dose	12 healthy occasional cannabis users, 12 heavy users
Ramaekers et al. (2011)	Netherlands	Cross-tolerance to the neurocognitive effects of THC and alcohol in heavy cannabis users	Double-blind, placebo-controlled, three-way crossover	Cigarettes with Bedrocan cannabis (11% THC, variety Bedrobinol). 400 µg/kg THC per dose	21 healthy heavy cannabis users
Brenneisen et al. (2010)	Switzerland	Cannabis abuse (doping) by athletes	Forensic research: single administration	Cannabis cigarettes containing Bedrocan cannabis (7% THC, variety Bedrobinol diluted with leaf material). Weight 1 gr. (45 mg THC per dose)	12 healthy volunteers

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Ramaekers et al. (2009)	Netherlands	Effects of cannabis on neurocognitive performance in occasional and heavy users	Double-blind, placebo-controlled, two-way mixed design	Cigarettes with Bedrocan cannabis (13% THC, variety Bedrobinol). 500 µg/kg THC per dose	12 healthy occasional cannabis users, 12 heavy users
Hunault et al. (2008)	Netherlands	Pharmacokinetics of THC after smoking a higher cannabis dose than a standard NIDA cigarette	Double-blind, placebo-controlled, four-way crossover	Cigarettes with 700 mg tobacco + 300 mg Bedrocan cannabis (22% THC, variety Bedrocan). THC content was 29.3-69.4 mg per cigarette	24 healthy recreational cannabis users
Engels et al. (2007) / de Jong et al. (2006)	Netherlands	Effects of cannabis tea on pharmacokinetics of irinotecan and docetaxel	Open-label	Bedrocan cannabis tea preparation (18% THC, variety Bedrocan) – 200 ml herbal tea (1 g/L)	24 cancer patients

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Mensinga et al. (2006)	Netherlands	Pharmacokinetics of THC and the effects of cannabis on physical and psychomotor functioning	Double-blind, placebo-controlled, four-way crossover	Cigarettes with 700 mg tobacco + 300 mg Bedrocan cannabis (22% THC, variety Bedrocan). THC content was 29.3-69.4 mg per cigarette	24 healthy recreational cannabis users
Ramaekers et al. (2006b)	Netherlands	Effects of cannabis on impairment of cognition and motor control: driving skills	Double-blind, placebo-controlled, three-way crossover	Cigarettes with Bedrocan cannabis (13% THC, variety Bedrobinol). 250 or 500 µg/kg THC per dose	20 healthy occasional cannabis users
Ramaekers et al. (2006a)	Netherlands	Effects of cannabis on executive and motor function	Double-blind, placebo-controlled, three-way crossover	Cigarettes with Bedrocan cannabis (13% THC, variety Bedrobinol). 250 or 500 µg/kg THC per dose	20 healthy occasional cannabis users