

Certified Reference Material of dried, ground hemp (CONTROLLED IN GERMANY)

Art. ID	NRC-HEMP-1
Unit	15 g
Deliverydetails	No Dangerous Good

Description

NRC-HEMP-1 is a certified reference material (CRM) designed for use in method development, validation, and quality control for the analysis of cannabinoids in cannabis and hemp. While cannabinoid solution reference standards are appropriate for instrument calibration, matrix CRMs such as HEMP-1 can help validate entire methods, from sampling, extraction, clean-up, and instrumental analysis.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
delta9-THC	Tetrahydrocannabinol	[1972-08-3]	0,318 ± 0,086	mg/g		
delta9-THCA	THC-9-COOH	[23978-85-0]	0,979 ± 0,084	mg/g		
Total cannabinoid value s are expressed as tota l neutral cannabinoid e quivalents (total delta 9-THC)	Tetrahydrocannabinol	[1972-08-3]	1,18 ± 0,14	mg/g		
CBD	Cannabidiol	[13956-29-1]	5,41 ± 0,70	mg/g		
CBDA	Cannabidiolic acid	[1244-58-2]	14,6 ± 0,8	mg/g		
Total cannabinoid value s are expressed as tota l neutral cannabinoid e quivalents (total CBD)	Cannabidiol	[13956-29-1]	18,2 ± 1,2	mg/g		
CBG	Cannabigerol	[25654-31-3]	0,0478 ± 0,0094	mg/g		
CBGA	Cannabigerolic acid (CB GA)	[25555-57-1]	0,117 ± 0,012	mg/g		
CBN	Cannabinol	[521-35-7]	0,490 ± 0,070	mg/g		
CBNA	Cannabinolic Acid	[2808-39-1]	0,350 ± 0,036	mg/g		
CBC	Cannabichromene (CBC)	[20675-51-8]	0,325 ± 0,084	mg/g		
CBCA	(±)-Cannabichromenic Ac id	[185505-15-1]	0,448 ± 0,108	mg/g		
THCV	Tetrahydrocannabivarin (THCV)	[31262-37-0]	0,0143 ± 0,0020	mg/g		
THCVA	(-)-delta9-trans-Tetra hydrocannabivarinic Acid	[39986-26-0]	0,0728 ± 0,0064	mg/g		
CBDV	Cannabidivarin (CBDV)	[24274-48-4]	0,188 ± 0,032	mg/g		
CBDVA	Cannabidivarinic Acid ([31932-13-5]	0,719 ± 0,054	mg/g		

CBDVA)				
CBL	Cannabicyclol (CBL)	[21366-63-2]	0,0741 ± 0,0136	mg/g
CBLA	(±)-rac-Cannabicyclic Acid	[40524-99-0]	0,187 ± 0,018	mg/g