



AN ITALIAN COMPANY THAT RESEARCHES, DEVELOPS AND PRODUCES READY TO USE KITS
USING CHROMATOGRAPHIC TECHNIQUES FOR CLINICAL LABORATORIES

CALIBRATOR LYOPHIL. IN WHOLE BLOOD FOR ABUSE DRUGS

(3,4-MDMA, 3,4-MDA, 3,4-MDE, Amphetamine, Methamphetamine, Ketamine, Morphine, Codeine, 6-Monoacetylmorphine, Beg, Cocaethylene, Methadone, Cocaine, EDDP, Norbuprenorphine, Buprenorphine, MBDB, Ecgonine Methyl Ester, Fentanyl, Delta-9-THC, Delta-9-THC-COOH, 11-OH-THC)

Code LC89016 TO USE WITH THE KIT CODE LC89010

OBJECTIVE

The calibrators on blood are used to calibrate the HPLC system for the quantitative measurement of analytes contained therein. Each analyte has a concentration that allows the construction of a calibration curve of seven points. The calibrators are freeze-dried human matrix and should be handled as if they were a real patient sample.

RECOVERY

Remove the metal seal and rubber stopper from the vial. Add exactly 1 ml of HPLC-grade water through the tube. Replace the rubber stopper, allow to stand for at least 30 to 40 minutes. Before use, mix by inverting the vial to dissolve the material until a homogeneous solution.

STORAGE AND STABILITY

The calibrators are stable for 36 months from the date of preparation if stored at -20 ° C. After reconstitution are stable for 1 week at 2-8 °C **except for Cocaine and Cocaethylene that must be reconstituted and analysed in the same day**. Do not use after the expiry date.

PRECAUTIONS

These calibrators in human matrix should be treated with care and treated as potentially infectious.

		
014	July 2022	July 2025

PACKAGING AVAILABLE:

- LC89016 CALIBRATOR IN WHOLE BLOOD FOR ABUSE DRUGS 7 x 2 x 1 ml

Release N° 003

May 2019

CONCENTRATIONS
CODE LC89016

		
014	July 2022	July 2025

ANALYTE	MEASUREM ENT UNIT	C0	MEDIUM VALUE C0 OBTAINED ± DS*	C1	MEDIUM VALUE C1 OBTAINED ± DS*	C2	MEDIUM VALUE C2 OBTAINED ± DS*	C3	MEDIUM VALUE C3 OBTAINED ± DS*	C4	MEDIUM VALUE C4 OBTAINED ± DS*	C5	MEDIUM VALUE C5 OBTAINED ± DS*	C6	MEDIUM VALUE C6 OBTAINED ± DS*
Morphine	ng/ml	0,0	0,00 ± 0,00	1,0	0,93 ± 0,80	5,0	5,0 ± 0,93	10,0	9,2 ± 0,32	20,0	21,0 ± 2,85	40,0	42,5 ± 0,37	60,0	56,1 ± 1,37
Codeine	ng/ml	0,0	0,00 ± 0,00	1,8	1,73 ± 0,63	6,0	6,1 ± 2,04	12,0	12,0 ± 1,34	22,0	21,6 ± 2,05	36,0	36,1 ± 1,65	50,0	49,1 ± 7,32
6-Mam	ng/ml	0,0	0,00 ± 0,00	1,2	1,21 ± 0,53	7,0	7,2 ± 1,10	10,0	10,7 ± 0,48	22,0	22,7 ± 1,34	40,0	39,8 ± 1,77	60,0	60,0 ± 1,17
Methadone	ng/ml	0,0	0,00 ± 0,00	1,0	0,89 ± 0,02	5,0	5,3 ± 0,38	10,0	10,1 ± 0,04	20,0	20,8 ± 0,58	40,0	38,7 ± 1,32	60,0	58,3 ± 0,42
EDDP	ng/ml	0,0	0,00 ± 0,00	1,6	1,59 ± 0,37	4,5	4,3 ± 0,70	10,0	9,8 ± 1,12	20,0	18,5 ± 2,08	40,0	41,1 ± 3,36	50,0	46,5 ± 3,55
Ecgonine Methy Ester	ng/ml	0,0	0,00 ± 0,00	2,0	1,85 ± 0,21	8,0	8,1 ± 0,03	14,0	13,9 ± 0,51	24,0	24,3 ± 0,41	44,0	44,6 ± 2,91	60,0	60,7 ± 1,37
Cocaine	ng/ml	0,0	0,00 ± 0,00	2,0	1,9 ± 0,44	7,0	6,7 ± 0,49	12,0	12,3 ± 0,51	20,0	20,8 ± 0,94	50,0	48,2 ± 6,84	60,0	61,5 ± 1,18
Cocaethylene	ng/ml	0,0	0,00 ± 0,00	2,0	1,7 ± 0,16	8,0	8,0 ± 0,19	15,0	14,1 ± 1,0	25,0	26,3 ± 0,87	55,0	54,1 ± 2,33	85,0	83,9 ± 0,81
Benzoilecgonine	ng/ml	0,0	0,00 ± 0,00	0,8	0,73 ± 0,06	5,0	4,6 ± 0,27	10,0	10,0 ± 0,16	20,0	21,0 ± 0,45	40,0	42,0 ± 2,19	70,0	66,4 ± 1,06
Amphetamine	ng/ml	0,0	0,00 ± 0,00	5,0	5,5 ± 0,74	12,0	12,4 ± 0,55	24,0	24,2 ± 1,07	36,0	38,0 ± 1,67	84,0	84,2 ± 0,96	150,0	157,3 ± 21,65
Methamphetamine	ng/ml	0,0	0,00 ± 0,00	4,0	4,01 ± 0,08	9,0	8,9 ± 0,81	18,0	18,2 ± 0,66	35,0	33,1 ± 1,27	70,0	67,2 ± 3,32	130,0	132,3 ± 0,94
Ketamine	ng/ml	0,0	0,00 ± 0,00	6,0	5,9 ± 0,59	10,0	10,3 ± 1,26	20,0	19,7 ± 1,22	30,0	29,3 ± 1,19	75,0	72,4 ± 8,7	130,0	131,1 ± 4,98

CONCENTRATIONS
CODE LC89016

		
014	July 2022	July 2025

ANALYTE	MEASUREMENT UNIT	C0	MEDIUM VALUE C0 OBTAINED + DS*	C1	MEDIUM VALUE C1 OBTAINED + DS*	C2	MEDIUM VALUE C2 OBTAINED + DS*	C3	MEDIUM VALUE C3 OBTAINED + DS*	C4	MEDIUM VALUE C4 OBTAINED + DS*	C5	MEDIUM VALUE C5 OBTAINED + DS*	C6	MEDIUM VALUE C6 OBTAINED + DS*
3,4-MDMA	ng/ml	0,0	0,00 ± 0,00	10,0	11,3 ± 3,6	20,0	20,8 ± 2,7	30,0	31,2 ± 4,6	40,0	39,4 ± 1,7	75,0	73,3 ± 10,5	150,0	153,1 ± 12,46
3,4-MDA	ng/ml	0,0	0,00 ± 0,00	15,0	14,7 ± 2,5	25,0	23,7 ± 3,0	35,0	37,1 ± 1,3	70,0	70,4 ± 2,0	110,0	112,4 ± 14,0	200,0	201,2 ± 22,2
3,4-MDE	ng/ml	0,0	0,00 ± 0,00	8,0	8,3 ± 1,53	20,0	19,4 ± 3,04	30,0	28,6 ± 0,97	50,0	48,1 ± 2,84	80,0	81,8 ± 6,40	140,0	141,3 ± 7,09
MBDB	ng/ml	0,0	0,00 ± 0,00	6,0	6,6 ± 0,24	10,0	10,4 ± 0,82	20,0	20,0 ± 0,92	30,0	30,3 ± 1,39	70,0	69,0 ± 7,30	120,0	120,6 ± 10,16
Buprenorphine	ng/ml	0,0	0,00 ± 0,00	0,4	0,39 ± 0,13	1,3	1,3 ± 0,05	2,7	2,7 ± 0,34	5,0	4,7 ± 0,06	9,0	8,6 ± 1,47	15,0	14,7 ± 0,94
Norbuprenorphine	ng/ml	0,0	0,00 ± 0,00	1,0	0,98 ± 0,08	2,5	2,6 ± 0,09	4,5	4,3 ± 0,78	5,5	5,5 ± 0,27	13,0	12,7 ± 0,81	20,0	19,6 ± 2,31
Fentanyl	ng/ml	0,0	0,00 ± 0,00	0,8	0,79 ± 0,09	4,0	3,8 ± 0,48	8,0	7,3 ± 0,37	12,0	12,6 ± 0,99	30,0	29,4 ± 4,65	40,0	40,3 ± 3,33
Delta-9-THC-COOH	ng/ml	0,0	0,00 ± 0,00	1,0	1,06 ± 0,25	2,0	2,1 ± 0,13	6,0	6,0 ± 0,65	8,0	7,8 ± 0,91	15,0	14,5 ± 1,85	30,0	32,8 ± 1,15
Delta-9-THC	ng/ml	0,0	0,00 ± 0,00	1,0	0,84 ± 0,04	2,0	2,1 ± 0,43	5,0	4,5 ± 0,44	7,0	6,5 ± 0,73	12,0	12,0 ± 0,18	30,0	27,3 ± 0,26
11-OH-THC	ng/ml	0,0	0,00 ± 0,00	0,5	0,51 ± 0,13	2,0	1,8 ± 0,27	5,0	4,1 ± 0,45	7,0	6,5 ± 0,74	12,0	12,2 ± 1,41	24,0	24,5 ± 0,43

* The procedures for production and validation / quality control of every batch shall be performed using the chromatographic method LC / MS / MS validated according to international guidelines of the Food and Drug Administration (FDA-May 2001) and the International Conference of Harmonisation of technical requirements for registration of pharmaceuticals for human use (ICH-Q2-R1-Nov 2005). The mean value and standard deviation were obtained during the validation phase of batch processing for level four bottles in duplicate.

This product fulfills all the requirements of Directive 98/79/EC of 27/10/1998 on in vitro diagnostic medical devices (IVD). The declaration of conformity is available upon request.



FOR IN VITRO DIAGNOSTIC USE ONLY

produced by

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
= ISO 13485 =



AN ITALIAN COMPANY THAT RESEARCHES, DEVELOPS AND PRODUCES READY TO USE KITS
USING CHROMATOGRAPHIC TECHNIQUES FOR CLINICAL LABORATORIES

EUREKA srl – LAB DIVISION ,
Via Enrico Fermi 25, 60033 Chiaravalle (AN) ITALY
Tel. + 39 071 74 50 790
Fax. + 39 071 74 96 579
info@eurekaone.com
www.eurekakit.com



Release N° 003

May 2019