



Specification for 1,4 – Dioxane (Ultra High Pure Grade – UHP)	Code No. : QS /P1/FP/UHP-23
	Page No. : 1 of 1
	Revision : 01
Date : 21.06.2023	

Sr. No.	Characteristic	Requirements	Method of Test Ref. Instruction No.
1	Description	Clear Colourless Liquid, free from extraneous matter.	Visual
2	Purity (by GC) 2-Methyl Dioxolane (by GC)	Min. 99.95% Max. 50 ppm	TI - 01
3	Moisture Content (by KF)	Less than 100 ppm	TI - 04
4	Acidity as Acetic Acid	Max. 50 ppm	TI - 06
5	Peroxide (H ₂ O ₂) content (by strip method- MERCK Catalogue No.110011)	Max. 5 ppm	TI - 23
6	Suspended Matter	None	TI- 21
7	Colour (APHA)	Max. 10	TI- 67
8	BHT Content	Max. 24 ppm	TI- 57
9	Molybdenum	Max. 3 ppb	ICPMS
10	Lithium	Max. 3 ppb	ICPMS
11	Lead	Max. 3 ppb	ICPMS
12	Copper	Max. 3 ppb	ICPMS
13	Zinc	Max. 3 ppb	ICPMS
14	Magnesium	Max. 3 ppb	ICPMS
15	Chromium	Max. 3 ppb	ICPMS
16	Manganese	Max. 3 ppb	ICPMS
17	Iron	Max. 3 ppb	ICPMS
18	Cobalt	Max. 3 ppb	ICPMS
19	Calcium	Max. 3 ppb	ICPMS
20	Tin	Max. 3 ppb	ICPMS
21	Aluminum	Max. 3 ppb	ICPMS
22	Potassium	Max. 3 ppb	ICPMS
23	Sodium	Max. 3 ppb	ICPMS
24	Silicon	Max. 3 ppb	ICPMS
25	Silver	Max. 3 ppb	ICPMS
26	Titanium	Max. 1 ppb	ICPMS
27	Vanadium	Max. 1 ppb	ICPMS
28	Cadmium	Max. 1 ppb	ICPMS
29	Barium	Max. 1 ppb	ICPMS
30	Tungsten	Max. 1 ppb	ICPMS
31	Zirconium	Max. 1 ppb	ICPMS
32	Arsenic	Max. 1 ppb	ICPMS
33	Nickel	Max. 1 ppb	ICPMS
34	Chromium	Max. 1 ppb	ICPMS


Sr. Executive QC
 Prepared by


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