

# Sample Preparation to Bioinformatics Analysis of DNA Methylation: Association Strategy for Obesity and Related Trait Studies

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jove.com/video/62598

## Materials

Name	Company	Catalog Number	Comments
Absolute ethanol	J.T. Baker	B5924-03	
Agarose gel	Kasvi	K9-9100	
Electric bioimpedance	Quantum BIA 450 Q - RJL System		
Ethylenediaminetetraacetic acid (EDTA)	Corning	46-000-CI	
EZ DNA Methylation-Gold kit	ZymoResearch, Irvine, CA, USA	D5001	
Formamide	Sigma	F9037	
FMS—Fragmentation solution	Illumina	11203428	Supplied Reagents
HumanMethylation450 BeadChip	Illumina		
Maxwell Instrument	Promega, Brazil	AS4500	
MA1—Multi-Sample Amplification 1 Mix	Illumina	11202880	Supplied Reagents
MicroAmp Optical Adhesive Film	Thermo Fisher Scientific	201703982	
MSM—Multi-Sample Amplification Master Mix	Illumina	11203410	Supplied Reagents
NaOH	F. MAIA	114700	

PB1—Reagent used to prepare BeadChips for hybridization	Illumina	11291245	Supplied Reagents
PB2—Humidifying buffer used during hybridization	Illumina	11191130	Supplied Reagents
2-propanol	Emsure	10,96,34,01,000	
RA1—Resuspension, hybridization, and wash solution	Illumina	11292441	Supplied Reagents
RPM—Random Primer Mix	Illumina	15010230	Supplied Reagents
STM—Superior Two-Color Master Mix	Illumina	11288046	Supplied Reagents
TEM—Two-Color Extension Master Mix	Illumina	11208309	Supplied Reagents
Ultrapure EDTA	Invitrogen	155576-028	
96-Well Reaction Plate with Barcode (0.1mL)	ByoSystems	4346906	
96-Well Reaction Plate with Barcode (0.8mL)	Thermo Fisher Scientific	AB-0859	
XC1—XStain BeadChip solution 1	Illumina	11208288	Supplied Reagents
XC2—XStain BeadChip solution 2	Illumina	11208296	Supplied Reagents
XC3—XStain BeadChip solution 3	Illumina	11208392	Supplied Reagents
XC4—XStain BeadChip solution 4	Illumina	11208430	Supplied Reagents