MANAGEMENT & DISPOSAL OF QIAGEN REAGENTS

Reagent Name	Chemical Components	Management/Disposal Requirements
Buffer AE		**See note
Buffer AL	Guanidinium Chloride @ 25-50% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer ALO	Sodium Dodecyl Sulphate @ 0.1-1.0% Non-Hazardous Proprietary Ingredients @ Balance	Drain Disposal
Buffer AP1	Sodium Dodecyl Sulphate @ 1.0-2.5% Non-Hazardous Proprietary Ingredients @ Balance	Drain Disposal
Buffer AP2	Acetic Acid @10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer AP3/E	Guanidinium Chloride @ 50-100% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer APP	Zinc Chloride @ 1.0-2.5% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer ATL	Sodium Dodecyl Sulphate @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Drain Disposal
Buffer AW		**See note
Buffer AW1	Guanidinium Chloride @ 50-100% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer AW2	Sodium Azide @ 0.1% Non-Hazardous Salt Buffer @ 99.9%	Chemical Hazardous Waste
Buffer BB	Cetrimonium Bromide @ 0.1-1.0% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer EB		**See note
Buffer EC		**See note
Buffer ETR		**See note
Buffer EX Reaction Buffer		**See note

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Buffer N3	Guanidinium Chloride @ 25-50% Acetic Acid @ 10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer P1		**See note
Buffer P2	Sodium Dodecyl Sulfate @ 1% Sodium Hydroxide @ 200mM Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer P3	Acetic Acid @ 10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer PE		**See note
Buffer PB	Guanidinium Chloride @ 25-50% Propan-2-ol @ 25-50% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer PM	Guanidine Hydrochloride @ 30-50% Isopropanol @ 20-30% Acetic Acid @ 0-0.1% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer PNI	Guanidinium Chloride @ 25-50% Propan-2-ol @ 25-50% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QBT	Propan-2-ol @ 10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QC	Propan-2-ol @ 10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QF	Isopropanol @ 10-20% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QG	Guanidine Thiocyanate @ 50-100% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QLE		**See note

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Buffer QLL	Dimethyl-N-Lauryl-N-(3-Sulfopropyl)-Ammonium-Betain @ 2.5-10% Guanidinium Chloride @ 1.0-2.5% Guanidine Thiocyanate @ 1.0-2.5% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QLW		**See note
Buffer QN	Propan-2-ol @ 10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QS	Propan-2-ol @ 10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer QX1	Sodium Perchlorate @ 50-100% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer RDD		**See note
Buffer RNAlater		**See note
Buffer RLC	Guanidinium Chloride @ 50-100% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer RLT	Guanidine Thiocyanate @ 25-50% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer RLT Plus	Guanidinium Thiocyanate @ 30-50% Octylphenoxypolyethoxyethanol @ 1-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer RPE (concentrate)		**See note
Buffer RT	Trometamol @ 2.5-10% Hydrogen Chloride @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste

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Buffer RW1	Guanidine Thiocyanate @ 2.5-10% Ethanol @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer RWT	Guanidine Thiocyanate @ 25-50% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Buffer S3	Acetic Acid @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Cell Lysis Solution	Non-Hazardous Proprietary Tris Based Buffer @ 100%	Drain Disposal
DNA Hydration Solution	Tris @ 10mM Ethylenediaminetetraacetic Acid @ 1mM Water @ Balance	Drain Disposal
dNTP Mix	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste
Effectene Transfection Buffer	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste
Enhancer	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste
Exonuclease Solvent (Buffer)		**See note
gDNA Wipeout Buffer	Trometamol @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
GelPilot Loading Dye	Trometamol @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
LyseBlue	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste
Lysozyme	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste

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Multiplex PCR Master Mix 2x	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste
Omniscript Reverse Transcriptase		**See note
OneStep Enzyme Mix		**See note
OneStep RT-PCR Buffer	Trometamol @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
pH Indicator I	Cresol Red @ <1% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Proteinase K	Proteinase @ <1% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Protein Precipitation Solution	Non-Hazardous Proprietary High Salt Buffer @ 100%	Drain Disposal
Qiagen Resin		**See note
QIAEX II Suspension	Sodium Perchlorate @ 50-100% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
QIAzol Lysis Reagent	Phenol @ 25-50% Guanidine Thiocyanate @ 10-25% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
Q-Solution 5x	Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
QuantiFast SYBR Green PCR Master Mix	1,2,4-Triazole @ 1.0-2.5% 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride @ 1.0-2.5% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
QuantiScript Reverse Transcriptase		**See note

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QuantiScript RT Buffer 5x		**See note
QuantiTect RT Mix		**See note
RBC Lysis Solution	Ammonium Chloride @ 1-10% Non-Hazardous Proprietary Ingredients @ Balance	Drain Disposal
RNAlater	Sulfuric Acid @ <1% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
RNase A Solution	Ribonuclease @ 2.5-10% Non-Hazardous Proprietary Ingredients @ Balance	Chemical Hazardous Waste
RT Primer Mix	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste
SuperFect Transfection Reagent	Non-Hazardous Proprietary Ingredients @ 100%	Chemical Hazardous Waste
SYBR Green RT-PCR Master Mix	Sodium Azide @ 0.27% Tris Buffer @ Balance	Chemical Hazardous Waste

**Can be drain disposed but the maximum combined total volume that can be discharged is 100 grams of solute per laboratory per day. After drain disposal, please flush with at least 10-20 fold excess of water to thoroughly rinse out the sink and sink trap, and to dilute the waste.

Note: The information in the table above only applies to the reagents when they are not mixed with any other chemicals. Please contact EAS via phone (203-432-6545) or email (waste.requests@yale.edu) for the proper management/disposal of any Qiagen reagents not listed above.

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