



MATERIAL SAFETY DATA SHEET

1. PRODUCT and COMPANY IDENTIFICATION

<p>Product Name: <i>INFINITI[®] Amp Mix products</i></p> <p>Unit Size: 4 vials per Pack; 250 µL per vial</p> <p>Amp Mix Reagents contain the following:</p> <ul style="list-style-type: none"> ▪ Polymerase Chain Reaction (PCR) Primers ▪ Deoxyribonucleotide triphosphates (dNTPs) ▪ DMSO (Dimethyl sulfoxide) 	<p>Manufacturer/Supplier AutoGenomics, Inc. 2251 Rutherford Road Carlsbad, CA 92008</p> <p>Telephone No: (760) 804-7378 Toll Free: 1-866-782-8639 www.autogenomics.com</p>
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This MSDS applies to the following INFINITI Amp Mix

Product Name	Catalog Number	Packaged
INFINITI FII-V & MTHFR Panel Amp Mix	1-301	4 vials per pack
INFINITI FII Amp Mix	1-302	4 vials per pack
INFINITI FV Amp Mix	1-303	4 vials per pack
INFINITI MTHFR Amp Mix	1-304	4 vials per pack
INFINITI FII-FV Amp Mix	1-305	4 vials per pack
INFINITI CFTR31 Amp Mix	1-306	4 vials per pack
INFINITI Ashkenazi Jewish Panel Amp Mix	1-307	4 vials per pack
INFINITI FII Plus-V & MTHFR Panel Amp Mix	1-308	4 vials per pack
INFINITI FII Plus Amp Mix	1-309	4 vials per pack
INFINITI FII Plus-V Panel Amp Mix	1-310	4 vials per pack
INFINITI CHEK2 Amp Mix	2-303	4 vials per pack
INFINITI EGFR Amp Mix	2-304	4 vials per pack
INFINITI HPV Genotyping Amp Mix	2-305	4 vials per pack
INFINITI HPV-QUAD Amp Mix	2-306	4 vials per pack
INFINITI HPV-HR QUAD Amp Mix	2-310	4 vials per pack
INFINITI Breast Cancer Panel-AJ Amp Mix	2-307	4 vials per pack
INFINITI 5-FU Amp Mix	2-308	4 vials per pack
INFINITI KRAS Amp Mix	2-309	4 vials per pack
INFINITI KRAS-BRAF Amp Mix	2-311	4 vials per pack
INFINITI BRAF Amp Mix	2-312	4 vials per pack
INFINITI CYP450 2C19 Amp Mix	3-303	4 vials per pack
INFINITI 2C9-VKORC1 Amp Mix	3-304	4 vials per pack
INFINITI UGT1A1 Amp Mix	3-305	4 vials per pack
INFINITI NAT2 Amp Mix	3-306	4 vials per pack
INFINITI CYP450 3A4 Amp Mix	3-307	4 vials per pack
INFINITI MDR1 Amp Mix	3-308	4 vials per pack
INFINITI CYP450 3A5 Amp Mix	3-309	4 vials per pack
INFINITI CYP450 2C9-VK-AS Amp Mix	3-310	4 vials per pack
INFINITI CYP450 2D6I Amp Mix	3-311	4 vials per pack
INFINITI CYP450 2D6T Amp Mix	3-312	4 vials per pack
INFINITI Warfarin Assay Amp Mix	3-314	4 vials per pack
INFINITI CYP450 2C9-VKORC1 QUAD Amp Mix	3-316	4 vials per pack



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Product Name	Catalog Number	Packaged
INFINITI TAMX3 Amp Mix	3-317	4 vials per pack
INFINITI CYP450 2C19 Plus Amp Mix	3-319	4 vials per pack
INFINITI Respiratory Viral Panel Amp Mix	4-302	4 vials per pack
INFINITI STD-6 Panel Amp Mix	4-303	4 vials per pack
INFINITI NTM Amp Mix	4-304	4 vials per pack
INFINITI MDR-TB Amp Mix	4-305	4 vials per pack
INFINITI STD-6 QUAD Amp Mix	4-306	4 vials per pack
INFINITI CT-NG-QUAD Amp Mix	4-307	4 vials per pack
INFINITI MRSA Amp Mix	4-308	4 vials per pack
INFINITI Leuko QUAD Amp Mix	4-309	4 vials per pack
INFINITI UroGen QUAD Amp Mix	4-310	4 vials per pack
INFINITI RVP Plus Amp Mix	4-311	4 vials per pack
INFINITI FLUA-sH1N1 Amp Mix	4-312	4 vials per pack
INFINITI FLUA-SOIV Amp Mix	4-313	4 vials per pack

2. INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% Wt
PCR Primers	NA	< 0.005%
dNTPs	NA	< 0.2%
KCl	7447-40-7	< 2.0%
Tris-HCl	1185-53-1	< 2.0%
MgCl ₂	7786-30-3	< 0.5%
DMSO (Dimethyl Sulfoxide)	67-68-5	< 6.0%

3. PHYSICAL and CHEMICAL PROPERTIES

Physical State	Clear, colorless liquid
Odor	None
pH	ND
Boiling Point/Range	ND
Melting Point/Range	ND
Flash Point	ND
Flammability	Non-flammable
Vapor Pressure	ND
Water Solubility	soluble
Partition Coefficient	ND
Viscosity	ND
Vapor Density	ND
Evaporation Rate	ND



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4. HANDLING AND STORAGE

Handling:

- Observe good laboratory handling practices. Wash hands thoroughly after removal of protective gloves.
- Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and do not ingest. May be absorbed through the skin.
- Use with adequate ventilation.
- Keep container tightly closed

Storage:

- Store frozen (-15 to -30°C) away from incompatible substances

5. STABILITY and REACTIVITY

Stability:

- Stable in normal conditions.

Materials and Conditions to Avoid:

- Metals
- Oxidizing agents
- Strong Bases
- Avoid excessive heat

Hazardous Decomposition Products:

- Hydrogen chloride
- Chlorine
- Nitrogen oxides
- Carbon monoxide
- Carbon dioxide
- Hazardous decomposition or by products will not occur in normal conditions

Hazardous Polymerization:

- Will not occur



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6. HEALTH HAZARD INFORMATION

Emergency Overview:

- Irritant to eyes, skin and respiratory system
- Should not be taken internally, inhaled or allow contact with skin

Acute Health Effects:

- Skin contact: May cause irritation to skin
 - Symptoms include - itching, scaling, reddening or blistering; may cause skin allergies
- Eyes: May cause irritation, redness, watering and itching
- Inhalation: Irritating to lungs; not to be inhaled
- Ingestion: Hazardous in case of ingestion
- Medical conditions aggravated by overexposure

Chronic Health Effects

- Carcinogenic Effects: None of the ingredients are known to cause cancer in animals or humans
- Repeated or prolonged exposure is not known to aggravate medical conditions

7. FIRST AID MEASURES

Eyes:

- Immediately flush eyes with copious amounts of water for at least 15 minutes; seek medical attention; and remove any contact lenses.

Skin:

- Immediately rinse skin with copious amounts of water; remove any contaminated clothing and shoes and wash before reusing; cover the irritated skin with an emollient.
- If irritation develops, get medical attention.

Inhalation:

- Move to fresh air. If not breathing, administer artificial respiration; if breathing is difficult, give oxygen; immediately get medical attention.

Ingestion:

- Do **NOT** induce vomiting unless directed to do so by medical personnel
- Never give fluids or induce vomiting if a person is unconscious or convulsing
- If large quantities of this material are swallowed, call 911 or a physician immediately
 - Loosen tight clothing such as a collar or tie, belt or waistband

8. FIRE and EXPLOSION INFORMATION

Auto-Ignition Temperature	N/A
Flammability of the Product	Non-Flammable
Flash Points	N/A
Flammable Limits	N/A
Products of Combustion	Metallic Oxides
Explosion Hazards	Risks of explosion in presence of static discharge and /or metals
Risks of explosion in presence of mechanical impact	None
Fire Fighting Media and Instructions	N/A
Protective Clothing for Fire Fighting	N/A



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9. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal:

- Wear appropriate protective equipment.
- Absorb with an inert, dry material and place in a waste disposal container in full compliance with national regulations

10. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

- Use adequate ventilation

Eyes Protection:

- Wear appropriate safety goggles or glasses with side shields.

Skin Protection:

- Wear chemical resistant gloves (e.g., latex or neoprene) and protective clothing to minimize skin contact.

11. TOXICOLOGY INFORMATION

Category	Determination
LD50	
▪ DMSO	?
▪ Sodium Chloride- Oral	3000 mg/kg (rat)
▪ Sodium Azide – Oral	27 mg/kg(rat)
▪ Dermal	20 mg/kg (rabbit)
Carcinogenicity	ND
Epidemiology, Reproductive Effects, Neurotoxicity	ND
Other Studies	ND

12. ECOLOGICAL INFORMATION

Ecological Information:

- Unavailable for this product

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

- Prior to disposal, review federal, state and local government requirements
- US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3

14. TRANSPORT INFORMATION

TDG Class:

- Not regulated.



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15. REGULATORY INFORMATION

WHMIS Classification:

- D2B - Material causing other toxic effects

Domestic Substances List:

- All ingredients are listed on the Domestic Substances List

16. OTHER INFORMATION

This material is not intended for food, household, agricultural or cosmetic use. The information in this MSDS is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. AutoGenomics shall not be held liable for reliance on the information provided in this MSDS and/or any damage resulting from the handling or contact with the above named products.

Key Legend Information:

N/A – Not Applicable

ND – Not Determined