



## SAFETY DATA SHEET

### Section 1: IDENTIFICATION

**Product identifier:** INFINITI® Amplification Mix for HTS

**Catalog Number:** See Appendix 1

**Recommended Use:** For use in Laboratories. Refer to Product Insert or Application Notes.

**Manufacturer:** **AutoGenomics, Inc.**  
1600 Faraday Ave.  
Carlsbad, CA 92008

**Telephone No:** 1-760-477-2248  
**Toll Free:** 1-866-782-8639  
**FAX:** 1-760-477-2252  
**Email:** [www.autogenomics.com](http://www.autogenomics.com)

**Emergency Telephone:** 1-866-782-8639

### Section 2: HEALTH HAZARD INFORMATION

#### OSHA

DMSO is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### GHS- Classification



Signal Word: WARNING



DMSO: Flammable

#### Health hazards:

Skin: May causes mild irritation	Category 3
Eye: Irritation	Category 2B
Oral: Maybe harmful if swallowed	Category 5
Inhalation: Maybe harmful	Category 5
DMSO: Flammable liquids	Category 4

#### Hazard Statement:

- H303: May be harmful if swallowed
- H316: Causes mild skin irritation
- H320: Causes eye irritation
- H333: May be harmful if inhaled
- DMSO: Combustible liquid



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### Precautionary Statement:

P305+ P351+ P338 - Eyes: May cause irritation in susceptible persons. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention

P303 + P351 + P364 - IF ON SKIN (or hair): Rinse cautiously with water for several minutes.

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P363 - wash clothing before reuse

P301+P330+P331– IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

### Principle Routes of Exposure

#### Potential Health Effects:

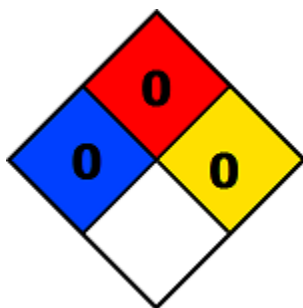
- Eyes: Irritation in susceptible persons
- Skin contact: May cause irritation to skin in susceptible persons
- Inhalation: May be harmful by inhalation
- Ingestion: Harmful if swallowed

#### Specific Effects:

- Carcinogenic Effects: None
- Mutagenic effects: None
- Reproductive toxicity: None
- Sensitization: None
- Target Organ effects: No known effects under normal use conditions. Target organ may include Respiratory system, eyes, kidney, skin, and digestion.

Other hazards: DMSO readily penetrates skin and may carry other dissolved chemicals into the body.

NPFA

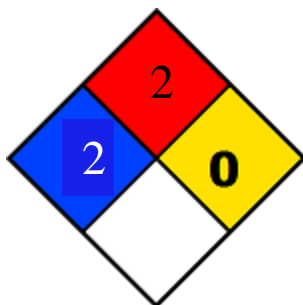


HMIS

Health	0
Flammability	0
Reactivity	0

For Amp Mix containing DMSO:

NPFA



HMIS

Health	2
Flammability	2
Reactivity	0



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### Section 3: CONPOSITION/ INFORMATION ON INGREDIENTS

Substances/ Mixtures: Mixture

Ingredient	CAS Number	% Wt.
PCR Primers	NA	proprietary
dNTPs	NA	proprietary
Tris-HCl	1185-53-1	0-2.0%
Magnesium chloride	7786-30-3	0- 0.5%
Potassium chloride	7447-40-7	0- 2.0%

May Contain the following (Products are identified in Appendix 1):

Ingredient	CAS Number	% Wt.
DMSO (Dimethyl Sulfoxide)	67-68-5	0- 11.3%
Trehalose	6138-23-4	0 – 5.1%
Tetramethylene sulfoxide	1600-44-8	0 – 0.48%
Betaine	107-43-7	0 - 4.4%
Magnesium sulfate	7487-88-9	0-0.06%

### Section 4: FIRST AID MEASURES

#### Description of first aid measures

##### Eyes:

- Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention; if symptoms persist.

##### Skin:

- Immediately flush skin with plenty of water for at least 15 minutes.
- If irritation develops, seek medical attention.

##### Inhalation:

- Move to fresh air. If not breathing, administer artificial respiration; 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

### Section 5: FIRE and EXPLOSTION INFORMATION

#### **Extinguishing media:**

Use dry chemical or carbon dioxide, or foam

#### **Special hazards arising from the substance or mixture:**

No information available.

#### **Hazardous Combustion Products**

**DMSO:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides, Sulfides, Formaldehyde

**Magnesium sulfate:** Magnesium oxide, Sulfur oxides



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### Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary. Dilute with copious amounts of water.

**DMSO:** Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors.

### Special Protective Equipment or Precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

## Section 6: ACCIDENTAL RELEASE MEASURES

### Use of Personal Precaution, Protective Equipment and Emergency Procedures

Wear appropriate protective clothing or equipment and non-permeable gloves. Ensure adequate ventilation.

### Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### Methods and Materials Used for Containment and Cleanup procedures

Remove all sources of ignition. Soak up with inert absorbent material. Place in a waste disposal container in compliance with national/state regulations.

## Section 7: HANDLING AND STORAGE

### Precaution for safe handling

Always wear recommended Personal Protective Equipment. Keep away from flames, hot surfaces and sources of ignition. Follow application notes and package insert for recommendation of handling product for usage. Avoid contact with eyes, skin, clothing. Avoid ingestion and inhalation.

### Advice on General Occupational Hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled stored and processed. Follow good industrial hygiene practices and wash hands after handling.

### Recommendations on the condition for safe storage, including any incompatibilities

Store in the original container according to the labeling. Material is light sensitive.

## Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control Parameters

Exposure Limits or threshold limits: None  
Prevent product from entering drains.

### Engineering Controls: General protective and hygienic measures.

The usual precautionary measures for handling chemicals should be followed.



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### Personal Protective Equipment

Wear gloves, safety glasses and protective clothing to prevent skin and eye contact.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colorless liquid
<b>Flammability or Explosive Limits:</b>	DMSO: Upper: 42% Lower 2.6%
<b>Odor</b>	No odor
<b>Vapor pressure</b>	Not determined
<b>Odor threshold</b>	Not determined
<b>Vapor density</b>	Not determined
<b>pH</b>	Not determined
<b>Relative density</b>	Not determined
<b>Melting point/ freezing point</b>	Not determined
<b>Solubility</b>	soluble in water
<b>Initial boiling point and boiling range</b>	Not determined
<b>Flash point</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Flammability</b>	>190°C
<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Auto-ignition temperature</b>	Product is not self-igniting
<b>Decomposition temperature</b>	Not determined
<b>Viscosity</b>	Not determined

### Section 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Is not reactive under normal conditions. Avoid excessive heat.
<b>Chemical Stability</b>	The product is stable under normal conditions.
<b>Possibility of Hazardous reactions</b>	May be hazardous if exposed to skin, eyes, mouth, or lungs.
<b>Conditions to avoid</b>	Avoid excessive heat. Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible material</b>	Not determined
<b>Hazardous decomposition products</b>	Hazardous decomposition or by products will not occur under normal conditions. See Section 5 for more information.



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### Section 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Acute toxicity:

Component	LD50 Oral	LD50 Dermal	
DMSO	14500 mg/kg (rat)	40 g/kg (rat)	

**Information on the likely routes of exposure:** Dermal contact, eye contact and ingestion.

#### **Potential Health Effects:**

**Eyes:** May cause eye irritation  
**Skin** May cause skin irritation  
**Inhalation** May be harmful by inhalation  
**Ingestion** May be harmful if swallowed

**Carcinogenicity** Not listed in IARC, NTP, ACGIH, OSHA, Mexico  
**Mutagenic effects** There is no data available  
**Reproductive toxicity:** There is no data available

**Specific target organ toxicity:** There is no data available

### Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity** Contains no substances known to be hazardous to the environment. Do not empty into drains.  
**Persistence and degradability** Soluble in water, persistence is unlikely  
**Bioaccumulative potential** No data available  
**Mobility in soil** Likely to be mobile in the environment due to its water solubility.  
**Results of PBT and vPvB assessment** No data available  
**Other adverse effects** None known.

### Section 13: DISPOSAL CONSIDERATIONS

#### **Waste Disposal Method**

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

### Section 14: TRANSPORTATION INFORMATION

**UN number and proper shipping name** none  
**TDG Class:** Not regulated  
**D.O.T.** Not regulated  
**IATA** Not regulated



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### Section 15: REGULATORY INFORMATION

**U.S. Federal Regulations:**

**SARA 313** Not applicable

**SARA 311/312 Hazard Categories**

Acute Health	No
Chronic Health	DMSO: Yes
Fire Hazard	DMSO: Yes
Sudden Release of Pressure	No
Reactive	No

**TSCA (Toxic Substances Control Act) 12(b):** Not applicable.

**Clean Water Act (40 CFR 122.21 and 122.42):** Not applicable

**Clean Air Act,,Section 112** Not applicable

**CERCLA** Not applicable

**U.S. State Regulations**

**U.S. State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
DMSO		Listed			
Trehalose		Listed	Listed		
Magnesium sulfate		Listed	Listed		

This product does not contain any chemicals listed under **California Proposition 65**

**International Regulations**

**International Inventories:**

Component	TSCA	DSL/NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
DMSO	Listed	Listed	200-664-3	Listed	Listed	Listed	Listed	Listed
Thiophene, tetrahydro, oxide (tetramethylene sulfoxide)	Listed	Listed	216-493-2					
Betaine	Listed							

Mexico – Grade  
Canada:

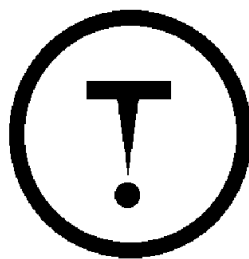
DMSO: Slight risk, Grade 1  
DMSO: Has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), see SDS.



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WHMIS Classification:

Hazard Class: DMSO: B3 Combustible liquid  
DMSO: D2B Toxic materials



### Section 16: OTHER INFORMATION

***This material is not intended for food, household, agricultural or cosmetic use. The information in this SDS 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 SDS 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





## SAFETY DATA SHEET

### Appendix 1

Product Name	Catalog Number (PE)
01-xxxx-xx	
INFINITI Factor II-V & MTHFR Assay (96)	01-7010-00, 01-7010-02
INFINITI System Assay for Factor II (96)	01-7020-01
INFINITI Factor II Assay (96)	01-7020-02
INFINITI Factor V Leiden Assay (96)	01-7030-01
INFINITI MTHFR Assay (96)	01-7040-00, 01-7040-02
INFINITI Factor II-V Leiden Assay (96)	01-7050-01, 01-7050-02
INFINITI CFTR-31 Assay (96) [1]	01-7060-00, 01-7060-02
INFINITI ApoE Quad Assay (192) [1, 5]	01-7200-00
INFINITI Factors Plus QUAD Assay (192)	01-7210-00
INFINITI Factor II QUAD Assay (192)	01-7220-00
INFINITI Factor V QUAD Assay (192)	01-7230-00
INFINITI MTHFR QUAD Assay (192)	01-7240-00
INFINITI Factor II-V QUAD Assay (192)	01-7250-00
INFINITI Factor II-V & MTHFR QUAD Assay (192)	01-7260-00
INFINITI AMD Assay (96)	01-7270-00
INFINITI Ashkenazi Jewish 2 Assay (96)	01-7290-00
INFINITI ApoE QUAD AD Assay (192)	01-7310-00
INFINITI Factor II-V & MTHFR AD Assay (96)	01-7320-00
02-xxxx-xx	
INFINITI EGFR Assay (96)	02-7040-00
INFINITI HPV Genotyping Assay (96)	02-7050-00, 02-7050-02
INFINITI KRAS Assay (96)	02-7090-00, 02-7090-02
INFINITI HPV-HR QUAD Assay (192)	02-7100-00, 02-7100-02

Product Name	Catalog Number (PE)
INFINITI KRAS-BRAF Assay (96)	02-7110-00, 02-7110-02
INFINITI BRAF Assay (96)	02-7120-00, 02-7120-02
INFINITI Breast Cancer QUAD Assay (192)	02-7160-00
INFINITI NRAS Assay (96)	02-7170-00
03-xxxx-xx	
INFINITI CYP450 2C9 Assay (96)	03-7020-00
INFINITI CYP450 2C9-VKORC1 Assay (96) [1]	03-7040-00, 03-7040-02
INFINITI UGT1A1 Assay (96)	03-7050-00, 03-7050-02
INFINITI NAT-2 Assay (96)	03-7060-00
INFINITI CYP450 3A4 Assay (96)	03-7070-00
INFINITI CYP450 3A5 Assay (96)	03-7090-00
INFINITI CYP450 2C9-VKR Assay (96) [1]	03-7140-00
INFINITI Warfarin Assay (96)	03-7140-01, 03-7140-02
INFINITI CYP450 2C19 Plus Assay (96)	03-7190-00, 03-7190-02
INFINITI CYP2C19 Assay (96)	03-7220-01, 03-7220-02
INFINITI CYP2C19 (Quad Format) Assay (192)	03-7230-01, 03-7230-02
INFINITI CYP450 3A4-3A5 Assay (96)	03-7270-00
INFINITI CYP450 2C19 Plus Duplex Assay (192)	03-7280-00
INFINITI CYP450 3A4-3A5 Duplex Assay (192)	03-7350-00
INFINITI CYP450 2C9-VK-R QUAD Assay (192)	03-7370-00
INFINITI CYP450 2C9-VKR-Bu Assay (96)	03-7370-00
INFINITI CYP450 2D6-BC Duplex Assay (192) [1, 2, 3, 4]	03-7380-00
INFINITI CYP450 2B6-QUAD Assay (192)	03-7400-00
INFINITI NeuR Assay (96)	03-7410-00



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Product Name	Catalog Number (PE)
INFINITI CYP450 2D6-BC Assay (96) [1, 2, 3, 4 ]	03-7430-00 03-7430-02
INFINITI NeuT Assay (96)	03-7450-00
INFINITI DPYD Assay (96)	03-7470-00
INFINITI 1A2 Assay (96)	03-7470-00
INFINITI 2D6 AD Assay (96)	03-7480-00
INFINITI 2C19 AD Assay (96)	03-7490-00
INFINITI 2C9-VKORC1 AD Assay (96)	03-7500-00
INFINITI 3A4-3A5 AD Assay (96)	03-7510-00
INFINITI 3A4-3A5 Plus AD Assay (96)	03-7520-00
04-xxxx-xx	
INFINITI STD-6 QUAD Assay (192)	04-7060-00
INFINITI CT-NG QUAD Assay (192)	04-7070-00
INFINITI Leuko QUAD Assay (192)	04-7090-00
INFINITI UroGen QUAD Assay (192)	04-7100-00, 04-7100-02
INFINITI RVP Plus Assay (96)	04-7110-00, 04-7110-02
INFINITI Bacterial Vaginosis QUAD Assay (192)	04-7140-00 04-7140-02
INFINITI Candida Vaginitis QUAD Assay (192)	04-7150-00 04-7150-02
INFINITI UroGen Plus QUAD Assay (192)	04-7160-00
INFINITI Resolve QUAD Assay (192)	04-7190-00
INFINITI Candida Vaginitis Plus QUAD Assay (192)	04-7200-00
INFINITI HCV QUAD Assay (192)	04-7230-00
INFINITI GUD QUAD Assay (192)	04-7250-00
INFINITI H. pylori QUAD Assay (192)	04-7260-00
INFINITI GBS QUAD Assay (192)	04-7360-00

**[1 Contains DMSO]**

**[2 Contains Magnesium sulfate]**

**[3 Contains Trehalose]**

**[4 Contains Tetramethylene sulfoxide]**

**[5 Contains Betaine]**