
Safety Data Sheet (SDS)

Product Name: Screen Quest™ Luminometric Calcium Assay Kit

Catalog Number: 36305

<i>Chemical Name</i>	<i>CAS#</i>	<i>EINECS#</i>	<i>Appearance</i>	<i>Water Solubility</i>
Component A: Coelenterazine Analog	N/A	N/A	Lyophilized powder	Moderate
Component B: 100% ETOH	N/A	N/A	Liquid	High
Component C: Assay Buffer	N/A	N/A	Liquid	High

Safety Data Sheet (SDS)

1. Product and Company Identification

1.1 Product identifiers

a. Product name:	Screen Quest™ Luminometric Calcium Assay Kit
b. Product number:	36305
c. CAS number:	N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Laboratory chemicals *For Research Use Only*
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1.3 Details of the supplier of the data sheet

a. Company:	AAT Bioquest, Inc. 520 Mercury Drive, Sunnyvale, CA 94085
b. Telephone:	408-733-1055
c. Fax:	408-733-1304
d. E-Mail:	info@aatbio.com

1.4 Emergency telephone number

Emergency telephone number:	408-489-6491
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2. Hazards Identification

2.1 Classification

Not a hazardous substance or mixture

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture

2.3 Hazardous not otherwise classified (HNOC) or not covered by GHS

None

2.4 Potential health effects

Avoid contact and inhalation. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

a. Inhalation:	No data available (may be harmful by inhalation)
b. Ingestion:	No data available (may be harmful if swallowed)
c. Skin:	No data available (may cause skin irritation in susceptible persons)
d. Eyes:	No data available (may cause eye irritation in susceptible persons)
e. Chronic exposures:	No data available (potentially harmful)
f. Target organs:	No data available (potentially harmful)
g. Carcinogenic effects:	No data available (potentially harmful)
h. Mutagenic effect:	No data available (potentially harmful)
i. Reproductive toxicity:	No data available (potentially harmful)
j. Sensitization:	No data available (potentially harmful)

3. Composition/Information on Ingredients

Chemical Name	CAS#	EINECS#	Appearance	Water Solubility
Component A: Coelenterazine Analog	N/A	N/A	Lyophilized powder	Moderate
Component C: Assay Buffer	N/A	N/A	Liquid	High

4. First Aid and Measures

4.1 Skin contact

Rinse with plenty of water. Call a physician to seek medical advice if symptoms arise.

4.2 Eye contact

Wash thoroughly after handling. If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice.

4.3 Ingestion

Never give anything by mouth to an unconscious person. Call a physician to seek medical advice if symptoms arise.

4.4 Inhalation

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice. If inhaled, move individual to fresh air and call a physician to seek medical advice.

4.5 Notes to physician

Treat symptomatically.

5. Fire Fighting Measures

5.1 Extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

5.2 Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

5.3 Unusual fire and explosions hazards

Emits toxic fumes under fire conditions.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment and methods to clean up spilled substances promptly.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods for cleaning up

Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

7. Handling and Storage

7.1 Personal precautions, protective equipment and emergency procedures

Potentially harmful. Avoid prolonged or repeated exposure. Avoid dust formation. Avoid breathing vapors, mist or gas.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Protect material from long-term exposure to light.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Control parameters

a. Engineering measures:

General industrial hygiene practice.

b. Personal protective equipment:

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

8.3 Environmental exposure control

Prevent products from entering drains.

9. Physical and Chemical Properties

Odor/odor threshold:

No data available

Specific gravity:

No data available

<i>pH:</i>	No data available
<i>Boiling point:</i>	No data available
<i>Melting point:</i>	No data available
<i>Flash point:</i>	No data available
<i>Vapor pressure:</i>	No data available
<i>Vapor density:</i>	No data available
<i>Relative density:</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	No data available
<i>Partition coefficient (n-octanol/water):</i>	No data available
<i>Auto-ignition temperature:</i>	No data available
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available
<i>Explosive properties:</i>	No data available
<i>Oxidizing properties:</i>	No data available

10. Stability and Reactivity

<i>Reactivity:</i>	No data available
<i>Chemical stability:</i>	Stable under recommended storage conditions
<i>Possibility of hazardous reactions:</i>	No data available
<i>Conditions to avoid:</i>	No data available
<i>Incompatible materials:</i>	No data available
<i>Hazardous decomposition products:</i>	No data available

11. Toxicological Information

<i>Acute toxicity:</i>	No data available
<i>Skin/corrosion/irritation:</i>	No data available (may cause skin irritation in susceptible persons)
<i>Serious eye damage/irritation:</i>	No data available (may cause eye irritation in susceptible persons)
<i>Respiratory or skin sensitization:</i>	No data available (may be harmful by inhalation)
<i>Germ cell mutagenicity:</i>	No data available (potentially harmful)
<i>Carcinogenicity:</i>	Not listed by NTP, IARC, or OSHA
<i>Reproductive toxicity:</i>	No data available
<i>Specific target organ toxicity:</i>	No data available
<i>Aspiration hazard:</i>	No data available
<i>RTECS:</i>	No data available

12. Ecological Information

<i>Ecotoxicity:</i>	No data available
<i>Persistence and degradability:</i>	No data available
<i>Bioaccumulative potential:</i>	No data available
<i>Mobility in soil:</i>	No data available
<i>Results of PBT and vPvB assessment:</i>	No data available

13. Disposal Consideration

Do not allow product to reach ground water, water course, or sewage system. Consult local, state or national regulations for proper disposal.

14. Transport Information

<i>DOT (US):</i>	Not dangerous goods
<i>IMDG:</i>	Not dangerous goods
<i>IATA:</i>	Not dangerous goods

15. Regulatory Information

<i>US Toxic Substances Control Act (TSCA):</i>	Not listed
<i>SARA 302 components:</i>	Not listed

<i>SARA 313 components:</i>	Not listed
<i>SARA 311/312 components:</i>	Not listed
<i>EEC risk statements:</i>	Not listed
<i>Massachusetts-RTK:</i>	Not listed
<i>New Jersey-RTK:</i>	Not listed
<i>Pennsylvania-RTK:</i>	Not listed
<i>California Proposition 65:</i>	Not listed

16. Other Information

16.1 HMIS Rating

<i>Health hazard</i>	0
<i>Flammability</i>	0
<i>Reactivity</i>	0

16.2 NFPA Rating

<i>Health hazard</i>	0
<i>Flammability</i>	0
<i>Reactivity</i>	0

16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.

Safety Data Sheet (SDS)

1. Product and Company Identification

1.1 Product identifiers

- a. Product name: 100% ETOH
b. Product number: N/A
c. CAS number: N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals ***For Research Use Only***

1.3 Details of the supplier of the data sheet

- a. Company: AAT Bioquest, Inc.
520 Mercury Drive, Sunnyvale, CA 94085
b. Telephone: 408-733-1055
c. Fax: 408-733-1304
d. E-Mail: info@aatbio.com

1.4 Emergency telephone number

Emergency telephone number: 408-489-6491

2. Hazards Identification

2.1 Classification

Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319

2.2 GHS label elements, including precautionary statements

Signal word Danger Hazard statement(s) H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. Precautionary statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: 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. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P403 + P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazardous not otherwise classified (HNOC) or not covered by GHS

None

2.4 Potential health effects

Avoid contact and inhalation. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

- a. Inhalation: No data available (may be harmful by inhalation)
b. Ingestion: No data available (may be harmful if swallowed)
c. Skin: No data available (may cause skin irritation in susceptible persons)
d. Eyes: No data available (may cause eye irritation in susceptible persons)
e. Chronic exposures: No data available (potentially harmful)
f. Target organs: No data available (potentially harmful)
g. Carcinogenic effects: No data available (potentially harmful)

<i>h. Mutagenic effect:</i>	No data available (potentially harmful)
<i>i. Reproductive toxicity:</i>	No data available (potentially harmful)
<i>j. Sensitization:</i>	No data available (potentially harmful)

3. Composition/Information on Ingredients

<i>Chemical Name</i>	<i>CAS#</i>	<i>EINECS#</i>
Component B: 100% ETOH	N/A	N/A

4. First Aid and Measures

4.1 Skin contact

Wash off with soap and plenty of water. Consult a physician.

4.2 Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.3 Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.4 Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.5 Notes to physician

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

5. Fire Fighting Measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special firefighting procedures

Carbon oxides

5.3 Unusual fire and explosions hazards

Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods for cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. Handling and Storage

7.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. hygroscopic Storage class (TRGS 510): Flammable liquids

8. Exposure Controls/Personal Protection

8.1 Control parameters

64-17-5 TWA 1,000.000000 ppm USA. ACGIH Threshold Limit Values (TLV)

8.2 Control parameters

a. Engineering measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

b. Personal protective equipment:

Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 38 min Material tested: Dermatril® P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Body Protection impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3 Environmental exposure control

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

<i>Appearance:</i>	Liquid
<i>Solubility in water:</i>	High
<i>Odor/odor threshold:</i>	No data available
<i>Specific gravity:</i>	No data available
<i>pH:</i>	No data available
<i>Boiling point:</i>	78 °C (172 °F)
<i>Melting point:</i>	Melting point/range: -114 °C (-173 °F)
<i>Flash point:</i>	14.0 °C (57.2 °F) - closed cup
<i>Vapor pressure:</i>	59.5 hPa (44.6 mmHg) at 20.0 °C (68.0 °F)
<i>Vapor density:</i>	No data available
<i>Relative density:</i>	0.789 g/mL at 25 °C (77 °F)
<i>Upper/lower flammability or explosive limits:</i>	Upper explosion limit: 19 %(V) Lower explosion limit: 3.3 %(V)
<i>Partition coefficient (n-octanol/water):</i>	log Pow: -0.349 at 24 °C (75 °F)
<i>Auto-ignition temperature:</i>	363.0 °C (685.4 °F)
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available
<i>Explosive properties:</i>	No data available
<i>Oxidizing properties:</i>	No data available

10. Stability and Reactivity

<i>Reactivity:</i>	No data available
<i>Chemical stability:</i>	Stable under recommended storage conditions
<i>Possibility of hazardous reactions:</i>	Vapours may form explosive mixture with air.
<i>Conditions to avoid:</i>	Heat, flames and sparks.
<i>Incompatible materials:</i>	Alkali metals, Oxidizing agents, Peroxides
<i>Hazardous decomposition products:</i>	Other decomposition products - No data available In the event of fire: see section 5

11. Toxicological Information

<i>Acute toxicity:</i>	LD50 Oral - Rat - 10,470 mg/kg LC50 Inhalation - Rat - 4 h - 30,000 mg/l LD50 Dermal - Rabbit - 15,800 mg/kg
<i>Skin/corrosion/irritation:</i>	Skin - Rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)
<i>Serious eye damage/irritation:</i>	Eyes - Rabbit Result: Moderate eye irritation (OECD Test Guideline 405)
<i>Respiratory or skin sensitization:</i>	No data available (may be harmful by inhalation)
<i>Germ cell mutagenicity:</i>	No data available (potentially harmful)
<i>Carcinogenicity:</i>	Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<i>Reproductive toxicity:</i>	No data available Reproductive toxicity - Human - female - Oral Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.
<i>Specific target organ toxicity:</i>	No data available
<i>Aspiration hazard:</i>	No data available
<i>RTECS:</i>	No data available

12. Ecological Information

<i>Ecotoxicity:</i>	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 14,200 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates LC50 - Ceriodaphnia dubia (water flea) - 5,012 mg/l - 48 h NOEC - Daphnia magna (Water flea) - 9.6 mg/l - 9 d Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 275 mg/l - 72 h (OECD Test Guideline 201)
<i>Persistence and degradability:</i>	Biodegradability Result: 95 % - Readily biodegradable
<i>Bioaccumulative potential:</i>	Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
<i>Mobility in soil:</i>	No data available
<i>Results of PBT and vPvB assessment:</i>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

13. Disposal Consideration

Waste treatment methods Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging Dispose of as unused product.

14. Transport Information

<i>DOT (US):</i>	UN number: 1170 Class: 3 Packing group: II Proper shipping name: Ethanol Reportable Quantity (RQ): Poison Inhalation Hazard: No
<i>IMDG:</i>	UN number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-D Proper shipping name: ETHANOL
<i>IATA:</i>	UN number: 1170 Class: 3 Packing group: II Proper shipping name: Ethanol

15. Regulatory Information

US Toxic Substances Control Act (TSCA):

SARA 302 components:

SARA 313 components:

SARA 311/312 components:

EEC risk statements:

Massachusetts-RTK:

New Jersey-RTK:

Pennsylvania-RTK:

California Proposition 65:

Not listed

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Not listed

CAS-No. 64-17-5 Revision Date 2007-03-01

CAS-No. 64-17-5 Revision Date 2007-03-01

CAS-No. 64-17-5 Revision Date 2007-03-01

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

16.1 HMIS Rating

<i>Health hazard</i>	2
<i>Flammability</i>	3
<i>Reactivity</i>	0

16.2 NFPA Rating

<i>Health hazard</i>	2
<i>Flammability</i>	3
<i>Reactivity</i>	0

16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.