



## Safety Data Sheet

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Rat Estrogen Receptor alpha (ER $\alpha$ ) Assay Kit; nr3a1, ESR1

**Product Number:** R00401-32, R00401

**Supplier:** INDIGO Biosciences, Inc., 3006 Research Drive, Suite A1, State College, PA 16801, USA; +1 (814) 234-1919

**Recommended Use:** INDIGO's kits are intended for research purposes only, and not for diagnostic or therapeutic use in humans.

### SECTION 2: HAZARDS IDENTIFICATION

**Mammalian reporter cells:** Bio-safety Level 2 (BSL-2). Non-infectious, non-hazardous, mycoplasma-negative, devoid of exogenous self-replicating or transmissible genetic elements of viral vectors; use personal protection devices (Section 8) to avoid direct contact.

**Cell culture media (CRM and CSM):** contains 5% fetal bovine serum; use personal protection devices (Section 8) to avoid direct contact.

**NFPA rating:** 17- $\beta$ -Estradiol

**Health hazard:** 0

**Fire hazard:** 0

**Reactivity hazard:** 0

#### Potential Health Effects

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

**Signal word:** Not applicable

**Hazard statement:** Mammalian reporter cells are non-hazardous; see Toxicological Information (Section 11) for further information.

**Precautionary statement:** Use personal protection devices (Section 8) to avoid direct contact.

**Pictograms:** Not applicable

### SECTION 3: COMPOSITION / INGREDIENT INFORMATION

**Bioactive Kit Components:** 17- $\beta$ -Estradiol (CAS: 50-28-2); 0.20  $\mu$ M solution solvated in DMSO

### SECTION 4: FIRST AID MEASURES

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Rinse mouth with water. Consult a physician.



## **SECTION 5: FIRE-FIGHTING MEASURES**

Fire hazard: 0; fire-fighting measures not necessary

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Not applicable

## **SECTION 7: HANDLING AND STORAGE**

**Handling:** Use personal protection devices (Section 8) to avoid direct contact.

**Storage:** Reporter cells, detection buffer, and detection substrate must be stored at -80C; all other assay kit components must be stored at temperatures no warmer than -20C, but may remain at -80C storage.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Appropriate engineering controls:** Not applicable; refer to technical manual for equipment specifications.

### **Personal protective equipment:**

**Hand 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.

**Eye protection:** Safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

**Skin and body protection:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Always wash hands 1.) immediately after using these kit components, and 2.) before leaving the lab environment.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance:**

Media: reddish hue; cell suspension: cloudy; all other components: clear

**State:** all components cryo-preserved / solid

**Upper/lower flammability or explosive limits:** Not applicable

**Odor:** Not applicable

**Vapor pressure:** No data available

**Odor threshold:** No data available

**Vapor density:** No data available

**pH:** No data available



**Relative density:** No data available  
**Melting point/freezing point:** No data available  
**Solubility:** No data available  
**Initial boiling point and boiling range:** Not applicable  
**Flash point:** Not applicable  
**Evaporation rate:** No data available  
**Flammability:** Not applicable; fire hazard: 0  
**Partition coefficient:** No data available  
**Auto-ignition temperature:** Not applicable; fire hazard: 0  
**Decomposition temperature:** No data available  
**Viscosity:** No data available

#### **SECTION 10: STABILITY AND REACTIVITY**

**Chemical stability:** Stable under recommended storage conditions  
**Possibility of hazardous reactions:** No data available  
**Materials to avoid:** Strong oxidizing agents  
**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions: carbon oxides

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Skin corrosion/irritation:** No data available  
**Serious eye damage/eye irritation:** No data available  
**Respiratory or skin sensitization:** May cause sensitization by skin contact.  
**Reproductive toxicity:** 17- $\beta$ -Estradiol is a presumed reproductive toxicant. Damage to fetus cannot be excluded.  
**Carcinogen indication:** Not applicable

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity:** No data available  
**Persistence and degradability:** No data available  
**Bio-accumulative potential:** No data available  
**Mobility in soil:** No data available  
**PBT and vPvGB assessment:** No data available  
**Other adverse effects:** No data available

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Do NOT dispose of liquid or solid waste through municipal drainage or landfill systems. Contact a licensed professional waste disposal service to dispose of bioactive and serum-containing materials provided in this assay kit product.



#### **SECTION 14: TRANSPORT INFORMATION**

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

#### **SECTION 15: REGULATORY INFORMATION**

**OSHA Hazards:** Target Organ Effect, Skin sensitizer

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

**SARA 313 Components:** 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.

#### **SECTION 16: OTHER INFORMATION**

**Date of last revision:** 15 February 2022