

Product sheet

NRK-52E | 305196

NRK-52E

**Description**  
NRK-52E is a rat cell line derived from a 52-day-old rat embryo. It is a fibroblast cell line that is highly proliferative and has a long lifespan. NRK-52E cells are used in a wide range of biological and biomedical research, including studies on cell growth, differentiation, and gene expression. NRK-52E cells are also used in the production of recombinant proteins and as a model system for studying various cellular processes.

**Organism** Rat

**Tissue** Kidney

**Synonyms** NRK 52E, NRK52E, NRK 52E, NRK, NRK-52E, NRK-52E, NRK-E52

Characteristics

**Breed/Subspecies** Wistar-Kyoto

**Morphology** Fibroblast

**Growth properties** Adherent

Media and supplements

**Citation** NRK-52E (ATCC CRL-1587) (305196)

**Biosafety level** 1

**NCBI\_TaxID** 10116

**CellosaurusAccession** CVCL\_0468

Media and supplements

Media

**Culture Medium** DMEM: DMEM:Ham's F12 (1:1) 3.1 mg/ml insulin, 2.5 mg/ml transferrin, 15 mg/ml selenium (15 mg/ml insulin, 15 mg/ml transferrin, 15 mg/ml selenium)

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<b>Supplements</b>	10% FBS
<b>Dissociation Reagent</b>	
<b>Subculturing</b>	PBS
<b>Split ratio</b>	1:2 or 1:4
<b>Fluid renewal</b>	2 or 3 times
<b>Freeze medium</b>	(10% FBS) + 10% DMSO
<b>Thawing and Culturing Cells</b>	<ol style="list-style-type: none"><li>1. Thaw cells in a 37°C water bath.</li><li>2. Centrifuge cells at 300 x g for 3 minutes.</li><li>3. Wash cells with PBS.</li><li>4. Resuspend cells in 70% of the original volume.</li><li>5. Seed cells into a 15 cm dish.</li><li>6. Incubate cells for 8 hours.</li><li>7. Add fresh medium.</li><li>8. Continue to culture cells.</li></ol>
<b>Incubation Atmosphere</b>	37°C, 5% CO <sub>2</sub>
<b>Flask Coating</b>	
<b>Freezing Procedure</b>	-78°C

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Shipping Conditions

Shipping conditions: -78

Storage Conditions

Storage conditions: -150 to -196

HLA

Sterility

Sterility: (PCR)