bio-techne
TOCRIS

Print Date: Dec 17th 2025

Certificate of Analysis

www.tocris.com

Product Name: **PEI STAR-Go™ transfection reagent** **Catalog No.: 8174** **Batch No.: 5**

CAS Number: 49553-93-7

IUPAC Name: Poly[imino(1,2-ethanediyl)] hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:	Colourless liquid
Solubility:	Soluble in Aqueous solution (supplied pre-dissolved at a concentration of 1 mg/mL)
Storage:	Store at +4°C

2. ANALYTICAL DATA

^{1}H NMR:	Consistent with structure
Performance:	Pass

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: **PEI STAR-Go™ transfection reagent** **Catalog No.: 8174** **Batch No.: 5**

CAS Number: 49553-93-7

IUPAC Name: Poly[imino(1,2-ethanediyl)] hydrochloride

Description:

PEI STAR-Go™ is a ready-to-use aqueous formulation of our high performance PEI STAR™ transfection reagent (Cat. No. 7854), provided as a sterile-filtered solution. PEI STAR™ is a chemically-defined, linear polyethylenimine (PEI) transfection reagent for affordable and scalable transient gene expression. PEI is a synthetic polymer with an exceptionally high positive charge density in pH-neutral solutions. Positively charged PEI binds strongly to negatively charged DNA and imparts a net cationic charge, allowing the DNA to enter cells. PEI is a non-viral vector commonly used to transfect HEK293, CHO, and a range of other eukar... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Physical Appearance: Colourless liquid

Storage: Store at +4°C

Solubility & Usage Info:

Soluble in Aqueous solution (supplied pre-dissolved at a concentration of 1 mg/mL)

This product is supplied in aqueous solution at a concentration of 1 mg/mL

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Han *et al* (2021) Aberrant role of pyruvate kinase M2 in the regulation of gamma-secretase and memory deficits in Alzheimer's disease. Cell Rep. ***37*** 110102. PMID: 34879266.

Trivedi *et al* (2021) Comparison of highly pure rAAV9 vector stocks produced in suspension by PEI transfection or HSV infection reveals striking quantitative and qualitative differences. Mol.Ther.Methods Clin.Dev. ***24*** 154. PMID: 35071688.

Huang *et al* (2013) AAV2 production with optimized N/P ratio and PEI-mediated transfection results in low toxicity and high titer for *in vitro* and *in vivo* applications. J.Virol.Methods ***193*** 270. PMID: 23791963.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956