

Wako Catalog No. 290-64301 (20 reactions)
 296-64303 (100 reactions)
 294-64304 (500 reactions)

for genome-wide screening

S. pombe Direct Transformation Kit Wako

One-step transformation by just mixing
 No centrifugation or washing
 Well suited for High-Throughput Transformation

The *S. pombe* Direct Transformation Kit Wako is specially designed for rapid and easy transformation of the fission yeast, *Schizosaccharomyces pombe*. This protocol allows for successful transformation simply by mixing plasmid DNA and the kit reagents with overnight yeast cell cultures without complicated competent cell preparation. The *S. pombe* Direct Transformation Kit Wako is well suited for high-throughput transformation of a large number of yeast strains grown in 96-well plates.



<96-well microplate protocol>
 Plasmids were introduced into *S. pombe*, followed by plating on SD medium.

Transformation Efficiency

250cfu/μg

Protocols

96-well plate protocol

96 microtiter well
 ↓
 25μL of YES medium
 Inoculate yeast strains into each well
 Incubate at 28-30 °C for 18-24hr. without shaking
 Suspend precipitated cells using plate mixer
 100μL of plasmid/reagent solution*
 ↓
 Mix with plate mixer
 Incubate at 46 °C for 2hr.**
 ↓
 Spotting 10μL on an appropriate selection plate
 ↓
 Incubate at 28-30 °C for 5-7days
 ↓
 Transformed yeast

** *: This operation can be done even at 42 °C for 4hr. or 37 °C for 6hr. instead of at 46 °C for 2hr.

* plasmid/reagent solution (per well, per tube)	
Sp Transformation Reagent	90μ L
Plasmid DNA	1μ g
Carrier DNA	4μ L
Sterile water up to 100μ L	

Tube protocol

Preparation of yeast culture

2mL of YES medium
 ↓
 Inoculate yeast colonies
 OD₆₀₀ : Adjust to 0.2 with YES medium
 ↓
 Transfer the 1mL of the suspension to 14mL two position type tube
 ↓
 Incubate at 28-30 °C with shaking
 until OD₆₀₀ reaches 6.0-7.0
 Yeast culture ···

Transformation

1.5mL of microcentrifuge tube
 ↓
 100μL of plasmid/reagent solution*
 25μL of Yeast culture()
 ↓
 Mix by vortexing
 Incubate at 37 °C for 2hr.
 ↓
 Plating
 ↓
 Incubate at 28-30 °C for 5-7days
 ↓
 Transformed yeast

Application ~A High Efficiency Protocol~

<Realize higher transformation efficiency by adding of centrifugation procedure>

Tube protocol

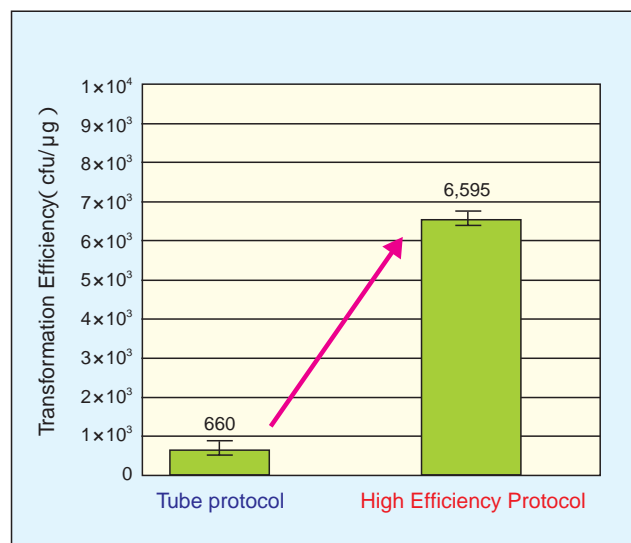
Preparation of yeast culture

2mL of YES medium
 ↓
 Inoculate yeast colonies
 OD₆₀₀: Adjust to 0.2 with YES medium
 ↓
 Transfer the 1mL of the suspension to 14mL two position type tube
 ↓
 Incubate at 28-30 with shaking until
 OD₆₀₀ reaches 6.0-7.0
 ↓
 500 x G, 5 min., RT
 Remove 800 μL of supernatant
 Suspend by Vortex mixer.
 ↓
 Yeast culture.....

Additional procedure to
prepare the quintuple
concentrated yeast culture

Transformation

1.5mL of microcentrifuge tube
 ↓
 100μL of plasmid/reagent solution*
 25μL of Yeast culture ()
 ↓
 Mix by vortexing
 ↓
 Incubate at 37 for 2hr.
 ↓
 Plating
 ↓
 Incubate at 28-30 for 5-7days
 ↓
 Transformed yeast



Kit Contents

		20 reactions	100 reactions	500 reactions
1	Sp Transformation Reagent	2.25mL x 1	11.5mL x 1	57mL x 1
2	Carrier DNA(5mg / ml)	0.1mL x 1	0.5mL x 1	1.25mL x 2

Storage

Keep at -20

Products

Description	Grade	Code No.	Package Size
S. pombe Direct Transformation Kit Wako	for Genetic Research	290-64301	20 reactions
		296-64303	100 reactions
		294-64304	500 reactions

Related Products

Description	Grade	Code No.	Package Size
<One-step Budding Yeast Transformation> S. cerevisiae Direct Transformation Kit Wako	for Genetic Research	296-62701	20 reactions
		292-62703	100 reactions
		290-62704	500 reactions

Please visit our online catalog to search for other products from Wako ; <http://www.e-reagent.com>

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