

# Isolating Interaction-Null/Impaired Mutants using the Yeast Two-Hybrid Assay

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## Citation

 Satake, Y., Gotouda, N., Tanaka, S. Isolating Interaction-Null/Impaired Mutants using the Yeast Two-Hybrid Assay. *J. Vis. Exp.* (2022), e66423, doi:10.3791/66423 (2023).

## Date Published

December 29, 2023

## DOI

10.3791/66423

## URL

jove.com/video/66423

## Materials

Name	Company	Catalog Number	Comments
0.5 M EDTA (8.0)	Nacalai Tesque Inc.	14347-21	
10% SDS Solution	Fujifilm Wako Pure Chemical Corp.	313-90275	
2-mercaptoethanol	Fujifilm Wako Pure Chemical Corp.	135-07522	
2-propanol	Kishida Chemical Co. Ltd.	110-64785	
5-Bromo-4-chloro-3-indolyl- $\beta$ -D-galactopyranoside (X-Gal)	Fujifilm Wako Pure Chemical Corp.	021-07852	
Agar	Formedium	AGR60	
Ampicillin Sodium	Fujifilm Wako Pure Chemical Corp.	68-52-3	
Anti-HA-tag mAb-HRP-Direct	Medical & Biological Laboratories Co. Ltd.	M180-7	
DNA from salmon testes	Merck KGaA.	D1626	
Ethanol	Merck KGaA.	9-0770-4-4L-J	
Filter paper for colony lift (Grade 50)	Whatman, Cytiva	1450-090	
Filter paper for colony lift (No.4A)	Advantec Toyo Kaisha, Ltd.	01411090	
Filter paper for replicating (No.1)	Advantec Toyo Kaisha, Ltd.	00011150	
G-418 Sulfate	Fujifilm Wako Pure Chemical Corp.	075-05962	
Hydrochloric acid	Kishida Chemical Co. Ltd.	230-37585	
KCl	Fujifilm Wako Pure Chemical Corp.	163-03545	
Lithium Acetate Dihydrate	Nacalai Tesque Inc.	20604-22	
MgSO <sub>4</sub> •7H <sub>2</sub> O	Fujifilm Wako Pure Chemical Corp.	131-00405	
Na <sub>2</sub> HPO <sub>4</sub> •12H <sub>2</sub> O	Nacalai Tesque Inc.	10039-32-4	
NaCl	Nacalai Tesque Inc.	31319-45	
NaH <sub>2</sub> PO <sub>4</sub> •2H <sub>2</sub> O	Nacalai Tesque Inc.	31717-25	
Paper towel	AS ONE Corp.	7-6200-02	
Phenol:Chloroform:Isoamyl Alcohol 25:24:1	Nacalai Tesque Inc.	25970-56	
Plasmid DNAs	the National BioResource Project - yeast ( <a href="https://yeast.nig.ac.jp/yeast/top.xhtml">https://yeast.nig.ac.jp/yeast/top.xhtml</a> )		
Plasmid isolation Kit	Nippon Genetics Co. Ltd.	FG-90502	

Polyethylene Glycol #4,000	Nacalai Tesque Inc.	11574-15	
SC double drop-out mix -Leu -Trp	Formedium	DSCK172	
Seamless cloning kit (In-Fusion assembly )	Takara Bio Inc.	#639648	
Skim milk powder	Fujifilm Wako Pure Chemical Corp.	190-12865	
Streptomycin Sulfate	Fujifilm Wako Pure Chemical Corp.	3810-74-0	
Taq polymerase (GoTaq Green Master Mixes)	Promega Corp.	M7122	
TRIS (hydroxymethyl) aminomethane	Formedium	TRIS01	
Triton X-100	Nacalai Tesque Inc.	12967-45	
Tryptone	ThermoFisher scientific Inc.	211705	
Tween 20	Nacalai Tesque Inc.	35624-15	
Yeast Extract	ThermoFisher scientific Inc.	212750	
Yeast Nitrogen Base (YNB)	Formedium	CYN0210	
Zymolyase 100T	Nacalai Tesque Inc.	07665-55	