

## **Biolistic Protocol**

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Organism: Maize

In vivo/in vitro/in situ: in vitro

Target tissue: Callus

Instrument: PDS-1000/He System

## **Tissue preparation:**

Maize, callus 28°C (N6 salts). Callus is initiated on high proline + silver nitrate + N6 salts medium from scutellum of immature zygotic embryos.

DNA	Size: Quantity per bombardment (shot): Preparation:	4–12 kb 0.2 μg / 3 mg gold (= 8 shots) <mark>Sta</mark> ndard
Microcarriers	Gold/tungsten: Size: Quantity per bombardment (shot): Concentration of PVP:	Gold 0.6 micron 3 mg / 8 shots Not used
Experimental details	Pressure used: Target distance (PDS only):	650 psi 6 cm; 1/4 inch gap between rupture disk retaining cap and macrocarrier cover
Transformation assay:   Marker gene, generally GUS   Additional information:		
Technical tips:		
It is possible to dilute the gold particles and still achieve the same degree of success.		
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Relevant publication reference(s):		
Frame et al., In Vitro Cell Dev Biol Plant 36, 21–29 (2000)		
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Contact Information:		
Plant Transformation Facility		
Iowa State University		
G503 Agronomy Hall		
Ames		
IA 50011 – 1010		
USA		
A AL		
All Heren		