



HTE catalyst screening plates

Accelerating your lab productivity



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Johnson Matthey's catalyst screening plates are a ready-to-use, 96-well solution for rapid hit identification in cross-coupling applications. Designed for seamless integration into high-throughput experimentation (HTE) workflows, the plates contain 24 unique catalysts selected by our team of experts. The screening plates utilise chemical-coated glass beads (ChemBeads)¹ with a standard catalyst loading of 1 μmol per well.

Improve your workflow productivity



Dry catalyst loading minimises form change, providing more accurate hit identification.

Designed to work directly with existing HTE screening equipment.

Reduces plate design and preparation time with a fast, economical alternative.

Catalyst and ligand diversity

Available formats: C–C and C–N cross-coupling reactions.

24 unique catalysts: π-allyl palladium technology, Buchwald Pd G3 precatalysts, PdL₂X₂, and Pd precursors.

Diverse phosphine ligands: covering a wide spectrum of the reaction space.



Catalyst overview

Product No.	Description	C-C plate	C-N plate	Product No.	Description	C-C plate	C-N plate
Pd-62	PdCl ₂ (MeCN) ₂	+	+	Pd-174	[tBuXPhos Pd(allyl)]OTf	+	+
Pd-93	Pd(dba) ₂	+		Pd-175	[tBuBrettPhos Pd(allyl)]OTf		+
Pd-94	Pd ₂ (dba) ₃	+	+	Pd-177	XantPhos Pd(allyl)Cl	+	+
Pd-100	PdCl ₂ (PPh ₃) ₂	+		Pd-178	PCy ₃ Pd(crotyl)Cl	+	
Pd-110	[Pd(allyl)Cl] ₂	+	+	Pd-181	P(o-tolyl) ₃ Pd(crotyl)Cl	+	
Pd-111	Pd(OAc) ₂	+	+	Pd-188	CyJohnPhos Pd(crotyl)Cl	+	
Pd-117	PdCl ₂ (DPEPhos)	+		Pd-209	tBuXPhos Pd G6		+
Pd-122	PdCl ₂ [P(tBu) ₂ (Ph)] ₂	+		Pd-210	tBuBrettPhos Pd G6		+
Pd-123S	PdCl ₂ (S)-BINAP		+	Pd-215	[RockPhos Pd(allyl)]OTf		+
Pd-126	PdCl ₂ (dppp)	+		Pd-216	[Me ₃ OMe _t BuXPhos Pd(allyl)]OTf		+
Pd-132	PdCl ₂ (AmPhos) ₂	+		Pd-217	CPhos Pd(crotyl)Cl		+
Pd-161	AmPhos Pd(crotyl)Cl	+	+	Pd-218	[EPhos Pd(allyl)]OTf		+
Pd-162	P(tBu) ₃ Pd(crotyl)Cl	+	+	Pd-219	[GPhos Pd(allyl)]OTf		+
Pd-166	PdCl ₂ [P(tBu)(Cy) ₂] ₂	+		Pd-220	[AlPhos Pd(allyl)]OTf		+
Pd-170	XPhos Pd(crotyl)Cl	+	+	Pd-221	[MorDalPhos Pd(crotyl)]OTf		+
Pd-171	RuPhos Pd(crotyl)Cl	+	+	BPC-307	P(Ad) ₂ (nBu) Pd G3	+	+
Pd-172	SPhos Pd(crotyl)Cl	+	+	Ni-132	Ni(PPh ₃) ₂ (1-naphthyl)Cl	+	
Pd-173	[BrettPhos Pd(allyl)]OTf	+	+				

*Plates are also available with catalyst loadings from 20nmol to 20μmol.
1. Tu, N.P.; Wang, T. RSC Med. Chem. **2026**, 17, 52-62.



Scan here to learn more about our catalyst screening plates or email pharma@matthey.com