

ChemDose™

New Tableted Reagents for Use in Synthetic Chemistry

In collaboration with Sigma-Aldrich, Reaxa has developed ChemDose™ reagent tablets for use in synthetic organic chemistry

Characteristics of Reaxa's ChemDose™ reagent tablets:

- **Increase accuracy of reagent addition** – consistent reagent dosage per tablet
- **Exact delivery of the required quantity** – accurate μmol loading of catalysts
- **Eradicate the need for time consuming weighing** – ideal for array and screening chemistry
- **Minimisation of waste** – reduce excess shelf inventory and reagent wastage
- **Simplification of R&D processes** – compatible with 96 well plate format and microwave heating
- **Convenient use of difficult-to-handle chemicals** – fast handling & dispensing

ChemDose™ is a novel technology for the delivery of chemical reagents in tablet form. The ChemDose™ tablets are designed to allow rapid and easy addition of reagents to reactions either manually or using automated systems. The ChemDose™ concept involves the adsorption of a solid or liquid reagent into a preformed nanoporous tablet. The tablet matrix is chemically inert and can be used under most reaction conditions as per the conventional reagent, with the robust nature of the tablet, which remains intact, aiding facile removal post reaction.



ChemDose™ Tablets

ChemDose™ tablets are available from Sigma-Aldrich (www.sigma-aldrich.com)

For further details about Reaxa products please see:

www.reaxa.com or www.sigma-aldrich.com/reaxa

For technical support and information please contact info@reaxa.com



ChemDose™ product	loading	Sigma-Aldrich catalogue number
<i>palladium sources</i>		
Pd(OAc)₂ palladium acetate	2.0 μmol	684929
large Pd(OAc)₂ palladium acetate	10 μmol	685593
Pd₂(dba)₃ tris(dibenzylideneacetone)dipalladium(0)	1.0 μmol (wrt Pd)	685135
<i>catalyst complexes</i>		
PEPPSI™-IPr (1,3-diisopropylimidazol-2-ylidene)(3-chloro pyridyl)palladium(II) dichloride	2.0 μmol	685143
Pd(dppf)Cl₂.CH₂Cl₂ (1,1'-bis (diphenylphosphino) ferrocene)palladium dichloride dichloromethane complex	2.0 μmol	685127
Pd(PPh₃)₄ tetrakis(triphenylphosphine)palladium(0)	2.0 μmol	685364
PdCl₂(PPh₃)₂ dichlorobis(triphenyl phosphine) palladium(II)	1.0 μmol	685607
<i>ligands</i>		
S-Phos 2-dicyclohexyl phosphine-2',6'-dimethoxybiphenyl	2.0 μmol	685585
X-Phos 2-dicyclohexyl phosphine-2',4',6'-triisopropylbiphenyl	2.0 μmol	685151
<i>peptide coupling agents</i>		
DCC <i>N,N'</i> -dicyclohexyl carbodiimide	0.15 mmol	685178
DIC <i>N,N'</i> -diisopropyl carbodiimide	0.15 mmol	685666
HATU <i>O</i> -(7-Azabenzotriazol-1-yl)- <i>N,N,N',N'</i> -tetramethyluronium hexafluorophosphate	0.02 mmol	685739

