Choosing your Metal & Organic Scavenging Solution

SEARCH BY METAL

SCAVENGER	Silia*MetS* Thiol (*Si-Thiol*)	Silia*MetS* DMT (*Si-DMT*)	Silia*Bond* Amine (*Si-WAX*)	Silia*MetS* AMPA (*Si-AMPA*)	Silia*MetS* Cysteine (*Si-Cys*)	Silia*MetS* DEAM (*Si-DEAM*)	Silia*MetS* Diamine (*Si-DIA*)	Silia*MetS* DOTA (*Si-DOTA*)	Silia*MetS* Imidazole (*Si-IMI*)	Silia*MetS* TAAcOH (*Si-TAAcOH*)	Silia*MetS* TAAcONa (*Si-TAAcONa*)	Silia*MetS* Thiourea (*Si-THU*)	Silia*Bond* Tosic Acid (*Si-SCX*)	Silia*MetS* Triamine (*Si-TRI*)
Product Number	R51030B	R79030B	R52030B	R85130B	R80530B	R54430B	R49030B	R91030B	R79230B	R69030B	R69230B	R69530B	R60530B	R48030B
Loading	≥ 1.20 mmol/g	≥ 0.50 mmol/g	≥ 1.20 mmol/g	≥ 0.80 mmol/g	≥ 0.30 mmol/g	≥ 0.85 mmol/g	≥ 1.28 mmol/g	≥ 0.38 mmol/g	≥ 0.96 mmol/g	≥ 0.41 mmol/g	≥ 0.41 mmol/g	≥ 1.07 mmol/g	≥ 0.54 meq/g	≥ 1.11 mmol/g
Typical Density	0.682 g/mL	0.732 g/mL	0.700 g/mL	0.707 g/mL	0.665 g/mL	0.691 g/mL	0.728 g/mL	0.681 g/mL	0.681 g/mL	0.635 g/mL	0.712 g/mL	0.767 g/mL	0.698 g/mL	0.736 g/mL
Solvent Compatibility	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents
Metals to be scavenged														
Ag	**Ag**					**Ag**						Ag	Ag	Ag
Al				**Al**										
Ca					Ca			**Ca**		**Ca**	**Ca**			
Cd		Cd	**Cd**		**Cd**		Cd		**Cd**		**Cd**			Cd
Ce				**Ce**										
Co		Co	Co	Co			Co	Co	**Co**	**Co**				Co
Cr			**Cr**		Cr		**Cr**		Cr	Cr	Cr			**Cr**
Cs					Cs					Cs	**Cs**			
Cu	Cu	Cu	Cu	Cu	Cu		Cu	**Cu**	**Cu**		**Cu**	Cu	Cu	Cu
Fe		Fe	Fe	Fe	**Fe**	**Fe**	Fe	Fe	**Fe**	Fe	**Fe**	Fe		Fe
Gd				**Gd**				**Gd**						
Hg	**Hg**		Hg				Hg							Hg
Ir	Ir	**Ir**			**Ir**				**Ir**	**Ir**	**Ir**			
La				**La**	La			**La**			**La**			
Li									**Li**	**Li**	**Li**			
Mg				Mg	Mg			Mg	**Mg**	**Mg**	**Mg**			
Ni		**Ni**		**Ni**			Ni	**Ni**	**Ni**	**Ni**	**Ni**		Ni	Ni
Os	**Os**	**Os**			**Os**				**Os**	**Os**	**Os**	Os		Os
Pb	Pb		Pb				Pb							Pb
Pd	**Pd**	**Pd**	**Pd**		Pd		**Pd**	Pd	Pd	Pd	Pd	**Pd**	Pd	**Pd**
Pt		**Pt**	**Pt**		Pt		**Pt**	Pt					**Pt**	**Pt**
Rh	Rh	**Rh**	**Rh**		Rh			Rh	Rh	Rh	Rh	Rh	**Rh**	Rh
Ru	**Ru**	**Ru**			**Ru**		Ru			**Ru**	Ru	**Ru**	Ru	Ru
Sc		Sc			**Sc**		Sc			**Sc**	**Sc**	Sc		Sc
Se	Se	**Se**			Se	Se	Se	**Se**			Se			Se
Sn					**Sn**	**Sn**				Sn	**Sn**	Sn	**Sn**	
Ti						**Ti**								
V				**V**			V							
W			W				**W**		**W**					**W**
Zn		Zn	Zn	Zn	Zn	**Zn**	**Zn**	**Zn**	**Zn**		Zn		Zn	**Zn**

■ : Best Scavenger
■ : Good Scavenger

PGI SCAVENGING

Genotoxic compounds induce genetic mutations and/or chromosomal rearrangements and can therefore act as carcinogenic compounds.

Whatever the nature of the impurity you might encounter, you can rely on our family of genotoxic Scavengers in order to eliminate tedious post-reaction purifications.

TYPICAL PROCEDURE

- Use 4-8 molar equivalent of Scavenger
- From room temperature up to 50°C
- Optimal pH range is from 2 to 10
- Typical solvents are THF, DMF, Ethyl Acetate, MeOH, PhMe, Ethers & Chlorinated solvents
- Stir one hour (*1h*) at moderate agitation (*or more, followed by ICP analysis*)
- Filter to remove the scavenger

TIP: Solution's color might be a good indication of the scavenging progress

Don't forget to optimize via temperature, number of equivalents, solvents, times, etc.

STORAGE CONDITIONS

All functionnalized gels should be kept dry.

- **Keep cool (≤ 8°C) when marked with**
- **Keep under Argon when marked with**

NOT SURE?

... try our scavengers kit!

Universal Metal Scavengers Kit
PN: K30730B

Composition:
- Si-Cysteine
- Si-DMT
- Si-Imidazole
- Si-TAAcOH
- Si-TAAcONa
- Si-Thiol
- Si-Thiourea
- Si-Triamine

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SEARCH BY FUNCTIONALITIES

SCAVENGER	Silia*Bond* Amine (*Si-WAX*)	Silia*Bond* Carbonate (*Si-CO_3*)	Silia*Bond* Carboxylic Acid (*Si-WCX*)	Silia*MetS* DEAM (*Si-DEAM*)	Silia*MetS* Diamine (*Si-DIA*)	Silia*Bond* Diol *nec* (*Si-Diol*)	Silia*Bond* DMAP (*Si-DMAP*)	Silia*Bond* Guanidine (*Si-GUA*)	Silia*Bond* Carbamate (*Si-CAR*)	Silia*Bond* Maleimide (*Si-MAL*)	Silia*Bond* Piperazine (*Si-PPZ*)	Silia*Bond* Propylsulfonic Acid (*Si-SCX-2*)	Silia*Bond* Tosic Acid (*Si-SCX*)	Silia*Bond* TMA Acetate *nec* (*Si-SAX_2*)	Silia*Bond* Tosyl Chloride *nec* (*Si-TsCl*)	Silia*MetS* Triamine (*Si-TRI*)
Product Number	R52030B	R66030B	R70030B	R54430B	R49030B	R35030B	R75630B	R68230B	R50130B	R71030B	R60030B	R51230B	R60530B	R66430B	R44030B	R48030B
Loading	≥ 1.20 mmol/g	≥ 0.46 mmol/g	≥ 0.92 mmol/g	≥ 0.85 mmol/g	≥ 1.28 mmol/g	≥ 0.97 mmol/g	≥ 0.53 mmol/g	≥ 0.80 mmol/g	≥ 1.16 mmol/g	≥ 0.64 mmol/g	≥ 0.83 mmol/g	≥ 0.63 meq/g	≥ 0.54 meq/g	≥ 0.71 mmol/g	≥ 0.63 mmol/g	≥ 1.11 mmol/g
Typical Density	0.700 g/mL	0.608 g/mL	0.687 g/mL	0.691 g/mL	0.728 g/mL	0.687 g/mL	0.674 g/mL	0.732 g/mL	0.741 g/mL	0.644 g/mL	0.671 g/mL	0.728 g/mL	0.698 g/mL	0.665 g/mL	0.761 g/mL	0.736 g/mL
Solvent Compatibility	All aqueous & organic solvents	Anhydrous aprotic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	Anhydrous aprotic solvents	Polar solvents (*DMF, MeOH, H_2O*)	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	All aqueous & organic solvents	Anhydrous aprotic solvents, unstable in DMF	All aqueous & organic solvents
Functionalities to be scavenged																
Acids & Acidic Phenols	●⬢	●⬢			●⬢			●⬢	▼		●⬢					●⬢
Acyl & Sulfonyl Chlorides	◆				◆		◆				◆					◆
Alcohols & Alkoxides									▼						▼	
Aldehydes, Anhydrides, Chloroformates, Isocyanates & Ketones	◆				◆						◆					◆
Amines & Anilines			●⬢						▼			●⬢	●⬢		▼	
Boronic Acids		●⬢		◆⬢		◆⬢		●⬢								
Carboxylic Acids														●⬢		
Hydrazines									▼						▼	
Organometallics, Thiols & Thiolates									▼	▼					▼	

◆ : ELECTROPHILE SCAVENGER (*COVALENT BONDING*) | ▼ : NUCLEOPHILE SCAVENGER (*COVALENT BONDING*) | ● : IONIC BONDING | ⬢ : CATCH & RELEASE