Faster Chemistry LLC

Your Chemistry... Faster

Get your chemistry done faster, greener and more cost effectively

We offer a significantly better alternative to traditional liquid–liquid extraction used during reaction work-ups. Our FastWoRX products will reduce solvent use by 90% or more and work-up time by 50% or more.

- **Solvent Savings**
  For a typical reaction conducted at 100 mg scale, 20 to 50 mL of solvent is typically needed for traditional LLE–based work-up. FastWoRX–based reaction work-up can be done with only 0–5 mL of solvent.

- **Time Savings**
  Traditional LLE–based reaction workup requires many steps such as LLE (10+ min per extraction, longer if there is emulsion formation), drying of the organic layers (20+ min), removing excess solvents with a rotavap (10 min) and loading the residue to a loading cartridge (10 min). Typically, the total time will be more than 50 min. FastWoRX–based work-ups only require solvent removal and filtration steps— the total time will typically be 15 min or less.

- **Safety**
  Reduction in potential contact with hazardous reagents and solvents.

Liquid–liquid extraction for work-ups after your reactions is labor intensive, consumes a significant amount of organic solvents and is not easily automated. In addition, there is possible emulsion formation that blurs the separation between liquid phases and a relatively high chance of contact with potentially hazardous solvents.

Our new FastWoRX products are a line of hydrophobic powders with an affinity for organic compounds. When added to a reaction mixture, the powder absorbs organics into its polymer coating. The resulting solid is then removed by simple filtration and target compounds are eluted with an organic solvent.

www.fasterchemistry.com
**FastWoRX™ - Forget the Separatory Funnel!**

- **No Sep Funnels or LLE!**
- **Slash Solvent Use and Disposal!**
- **No Emulsions!**

*Work-Ups with a Lot Less Work*

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**FastWoRX-S** is a hydrophobic powder that absorbs most organics. It can easily and quickly be separated – along with the absorbed organics – from the aqueous phase by a simple filtration step that can be automated.

**FastWoRX-M** is a hydrophobic and magnetic black powder that absorbs most organics. It can easily and quickly be separated – along with the absorbed organics – from the aqueous phase by a magnet or a simple filtration. Using an electromagnet allows easy collection and release of the powder, enabling many automation possibilities.

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**Ordering Information**

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<th>Catalog #</th>
<th>Description</th>
<th>Packaging</th>
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<td>Hydrophobic and magnetic black powder</td>
<td>25 grams, each</td>
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Patent Pending

10/18