



# Hamari Chemicals USA San Diego Research Center



Hamari Chemicals, Ltd.

# Hamari Chemicals USA Inc.

**Hamari Chemicals USA Inc., San Diego Research Center (Hamari SDRC)** is a full subsidiary of Hamari Chemicals, Ltd. (Japan).

**The primary roles of Hamari SDRC are custom non-GMP manufacturing up to 10 kg, as well as process optimization of synthetic routes.**

When your project matures to GMP manufacturing, we can easily transfer the process to **our large scale reactors (200 to 3000 L) at our Hamari facilities in Japan.** These commercial plants are cGMP compliant, and support US-FDA inspections.

Established in 1948, Hamari Chemicals, Ltd. is a **global supplier of APIs and intermediates** covering all stages of development. **The superior quality of our custom manufactured products** and continuous process improvements result in a very high level of customer satisfaction.

Hamari Chemicals USA Inc. : [www.hamarius.com](http://www.hamarius.com)

Hamari Chemicals, Ltd. : [www.hamarichemicals.com](http://www.hamarichemicals.com)



## Hamari SDRC offers the following services:

### Process Research

- Route selection and optimization
- Full-time equivalent (FTE) research

### Analytical Services

- Custom analysis (HPLC, LC-MS, GC-MS, NMR)
- Impurity identification and synthesis
- Chiral HPLC separations and analysis

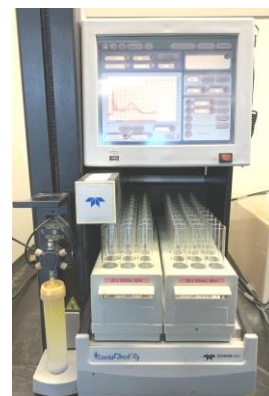
### Custom Manufacture

- Tailor-made custom amino acids
- Peptide synthesis (in solution and/or automated solid phase)
- Synthesis of metabolites, decomposition products, intermediates
- Scale-up studies
- Non-GMP manufacturing

### Specialized Equipment

- Walk-in fume hood
- Jacketed glass reactors (10 L, 20 L, 50 L)
- Filter reactor (20 L)
- Automated chromatography
- Biotage® Alstra™ peptide synthesizer
- On-site 400 MHz four-nucleus NMR
- High-capacity lyophilizer

# Hamari Chemicals USA Inc.



## Advantages of Hamari SDRC:

### 1. Easy access

- Only 20 minutes from San Diego Airport.
- Close to UCSD campus and the San Diego Biotech community.
- You are welcome to visit the facilities at any time.

### 2. Available for custom manufacture requests

- We can propose development plans for your custom products.
- Easy transfer to Hamari Japan for large-scale manufacture and consulting.

### 3. Prompt delivery

- Our efficient workforce completes projects in short time frames with complete transparency of results and problems.

### 4. Competitive Pricing

- Our efficiency, accessibility, and openness allows us to price projects very competitively to overseas CROs.

### 5. High Quality

- Our experience of over 70 years in custom manufacturing and R&D ensures a high quality of your custom manufactured product.

Contact us:



**Hamari Chemicals USA Inc.**  
San Diego Research Center

11494 Sorrento Valley Road, Suite E  
San Diego, California, 92121, USA  
TEL +1-858-704-4395 FAX +1-858-704-4398  
E-Mail: daisuke-yamaguchii@hamari.co.jp