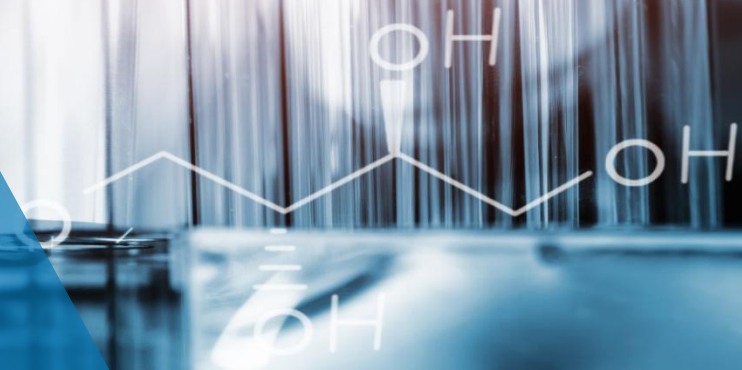




# Aozeal Certified Standards, Inc

Innovative Products with High Standard





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Custom Services



## Partners

Worldwide Bussiness  
and Supply Chain



## Who we are

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Aozeal Certified Standards (AOCS), Inc. is a high-tech bio-pharmaceutical company specialized in synthesis and supply of API impurities and other pharmaceutical reference standards with customers' desired purity, characterization and QTY. We are engaged in the business of pharmaceutical reference standards for many years.





10000 API Impurities

1500 API Standards

1200 Intermediates and other reference standards



Do's





HPLC



NMR

## R&D Equipment



LC-MS

- LC-MS
- NMR
- GC
- HPLC
- IR
- TGA
- Karl Fischer Titrator
- LOD
- ICP-MS



**AOzeal<sup>®</sup> Certified Standards, Inc**  
Innovative products with high standards

## Why choose us

- We have our own research lab equipped with advanced technology and smart team for organic synthesis and biosynthesis. Our laboratory is awarded ISO 9001:2015 Quality Management System certification. Our products are mainly used for R&D of pharmaceutical and bio-tech corporations, clinical and biological CROs, as well as universities, hospitals and other research institutions. Up to now, we have established long-term in-depth cooperation with many customers all over the worldwide.
- Up to now, AOCS diversified product lines cover a wide range of fields, which enable us provide high-quality products and R&D services to numerous worldwide clients. In addition AOCS establish long-term in-depth cooperations with many pharmas, bio-tech corporations, clinical and biological analysis CROs, as well as universities, hospitals and other research institutions.

## ISO9001:2015





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# 02 Products





AOzeal® Certified Standards  
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## Products Classification



**Nervous System**



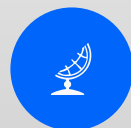
**Cerebral-Vascular System**



**Anti-infection**



**Antineoplastic Drugs and  
Immunization Drugs**



**Antiviral**



**Digestive and Metabolic System**



**Respiratory System**



**Blood and Hematopoietic Organs**



**Urogenital System and Sex  
Hormones**



**Analgesic Medication**

**AOCS offer the most comprehensive source of reference standards, to browse product information online, please visit [www.aozeal.com](http://www.aozeal.com).**





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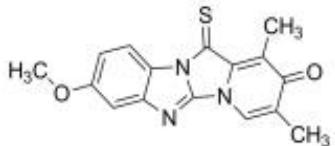
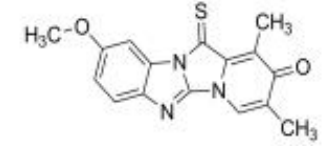
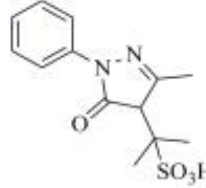
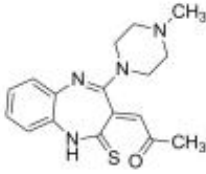
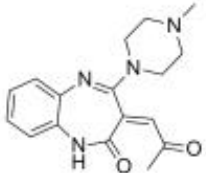
## Featured Products

Catalog #	Product Name	CAS #	Structure	Specific Purity	Mol. Formula	Mol. Weight	Stock Information
D0071.61	Dapagliflozin Impurity 61	NA		99.73%	C <sub>31</sub> H <sub>35</sub> ClO <sub>12</sub>	635.06	In stock
D0071.66	Dapagliflozin Impurity 66	NA		98.15%	C <sub>21</sub> H <sub>25</sub> ClO <sub>8</sub>	440.87	In stock
D0071.67	Dapagliflozin Impurity 67	NA		99.36%	C <sub>24</sub> H <sub>35</sub> ClO <sub>9</sub>	502.2	In stock
D0071.26	Dapagliflozin Impurity 26	461432-25-7		97.21%	C <sub>29</sub> H <sub>33</sub> ClO <sub>10</sub>	577.02	In stock
D0071.32	Dapagliflozin Impurity 32	NA		97.22%	C <sub>30</sub> H <sub>35</sub> ClO <sub>11</sub>	607.05	In stock



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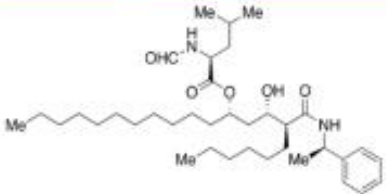
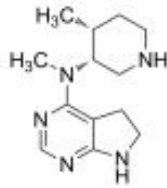
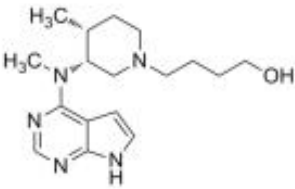
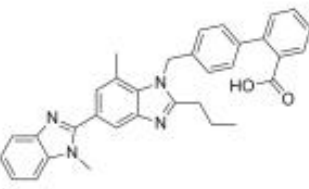
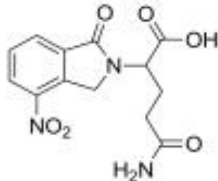
## Featured Products

Catalog #	Product Name	CAS#	Structure	Specific Purity	Mol. Formula	Mol. Weight	Stock Information
O0004.08	Omeprazole Impurity F (EP)	125656-82-8		98.49%	C <sub>16</sub> H <sub>13</sub> N <sub>3</sub> O <sub>2</sub> S	311.36	In stock
O0004.09	Omeprazole Impurity G (EP)	125656-83-9		99.19%	C <sub>16</sub> H <sub>13</sub> N <sub>3</sub> O <sub>2</sub> S	137.18	In stock
E0063.06	Edaravone Impurity 6	1323485-71-7		97.15%	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub> S	296.34	In stock
O0001.10	Olanzapine Thiolactam	1017241-36-9		98.83%	C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub> S	328.43	In stock
O0001.08	Olanzapine Lactam	1017241-34-7		98.21%	C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub>	312.37	In stock



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## Featured Products

Catalog #	Product Name	CAS#	Structure	Specific Purity	Mol. Formula	Mol. Weight	Stock Information
O0010.08	Orlistat Impurity 4	NA		98.23%	C37H64N2O5	616.91	In stock
Q0009.04	Tofacitinib citrate Impurity 70	1812890-23-5		99.93%	C13H21N5	247.34	In stock
Q0009.05	Tofacitinib citrate Impurity 71	NA		97.15%	C17H27N5O	317.43	In stock
T0002.02	Telmisartan Impurity B	1026353-20-7		99.36%	C33H30N4O2	514.61	In stock
L0024.07	Lenalidomide Impurity 13	874760-71-1		99.77%	C13H13N3O6	307.26	In stock



### Product Information

#### Compound Name

Sotalol EP Impurity A HCl

#### Chemical Formula

C<sub>12</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>S · HCl

#### Molecular Weight

292.83

#### Catalogue Number

S0027.01

#### Lot No.

YJS-019-23

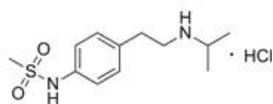
#### Storage Conditions

2 - 8°C

#### Appearance

White Solid

#### Re-test Date: Jun. 21, 2022



CAS No. : 16974-44-0

### Analytical Information

#### Method for Determining Identity

MS, <sup>1</sup>H NMR (DMSO-d<sub>6</sub>), <sup>13</sup>C NMR (DMSO-d<sub>6</sub>) and IR

#### Purity (HPLC)

99.91%

#### Residual Solvents

No significant amounts of residual solvents were detected (<0.05%)

#### Water Determination

0.087% (KF)

#### Residue On Ignition

0.022%

QA Manager

Laboratory Director

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<http://www.aozeal.com>

Fax: +1 (510) 373-2446

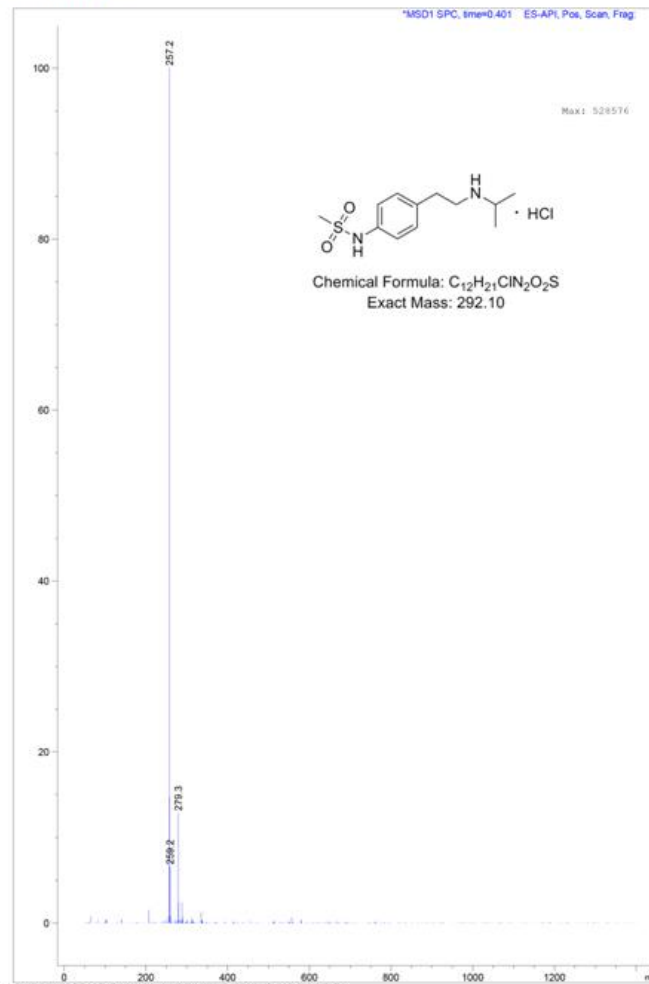
E-mail: [info@aozeal.com](mailto:info@aozeal.com)

1151 Harbor Bay Parkway, Suite 208H, Alameda, CA 94502, USA

# Certificate & Spectrum



## I. MS Spectrum

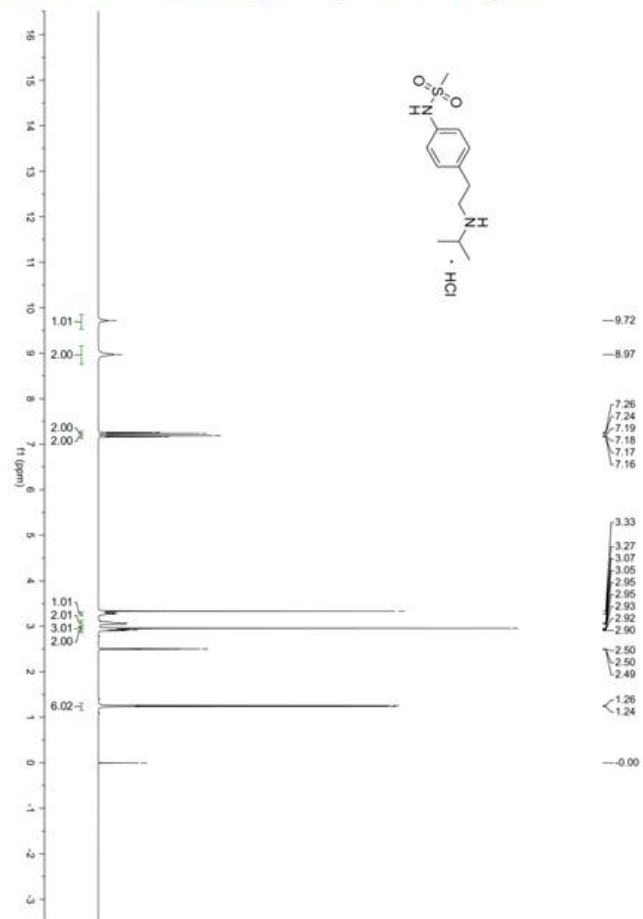




## II. <sup>1</sup>H NMR Spectrum (1)

Conditions: 500 MHz, DMSO-d<sub>6</sub>

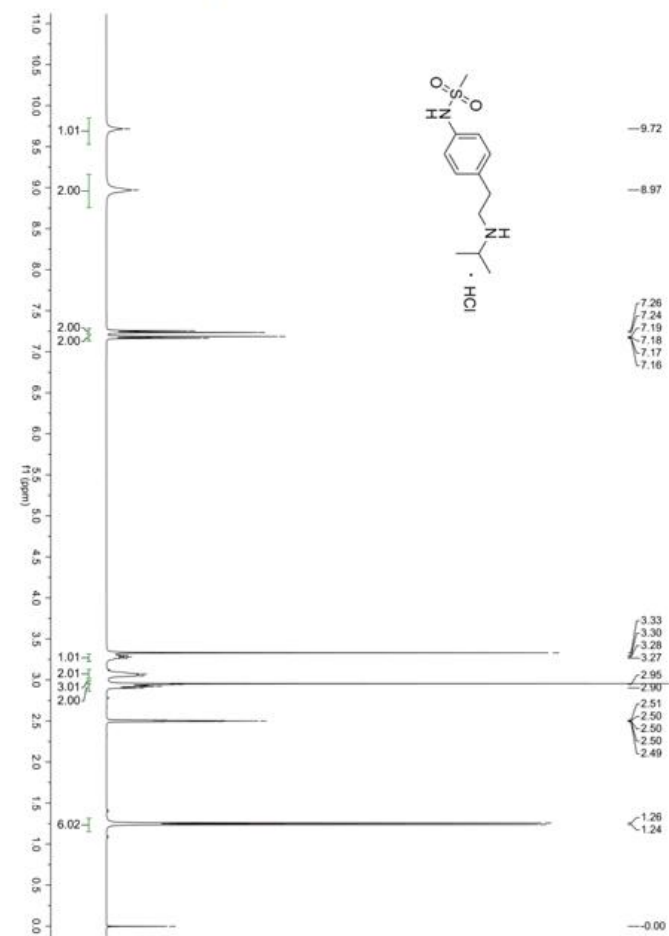
The structure is confirmed with the signals of the spectrum and their interpretation.



# Certificate & Spectrum



## <sup>1</sup>H NMR Spectrum (2)

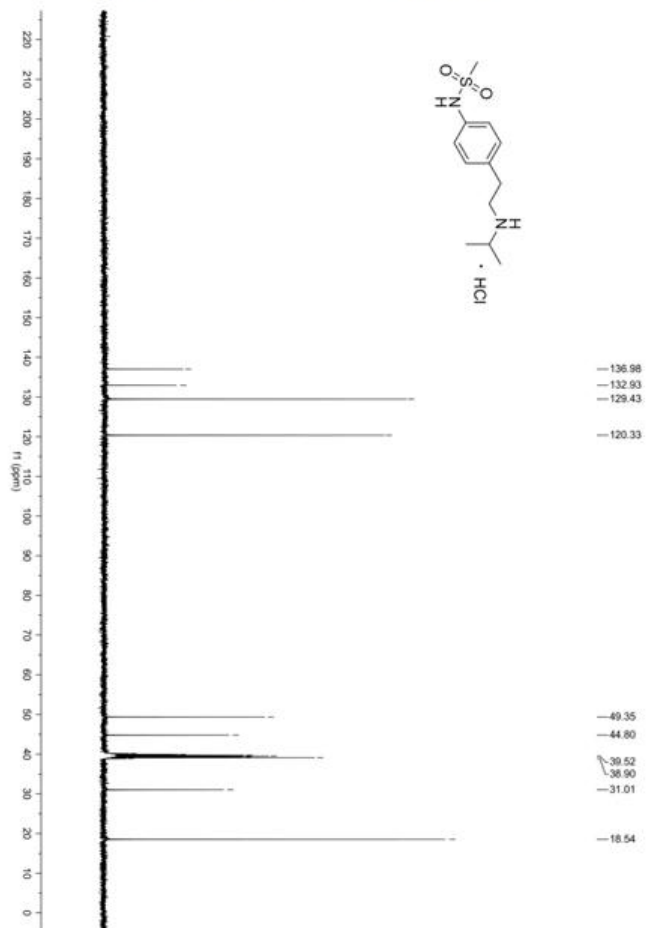




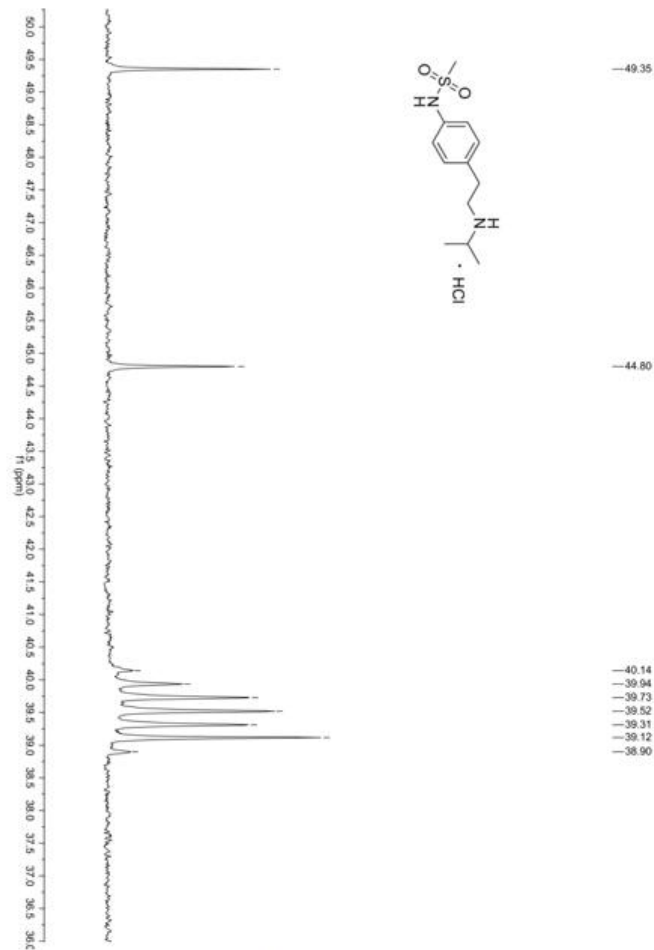
### III. <sup>13</sup>C NMR Spectrum (1)

Conditions: 400 MHz, DMSO-d<sub>6</sub>

The structure is confirmed with the signals of the spectrum and their interpretation.



### <sup>13</sup>C NMR Spectrum (2)





#### IV. HPLC Spectrum

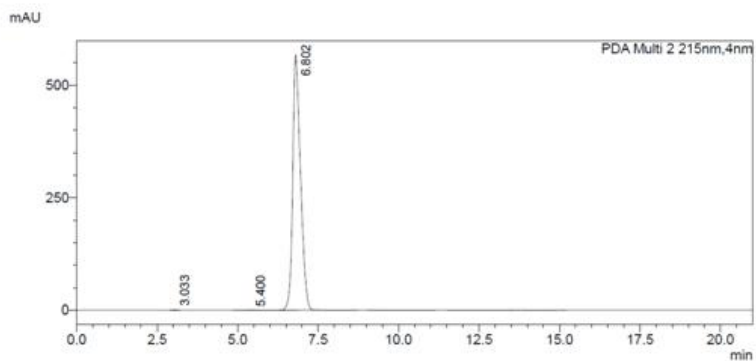


Injection Date : 06/22/2019 20:02:53

##### HPLC Conditions:

Column : H&E C18A31 SPS 100-10 4.6x250 mm, 10 µm  
Flow rate : 1.0 mL/min  
Detection : Sig=215 nm  
Injection : 1 µL  
Column temperature : 35°C  
Mobile phase : A: Methanol  
B: 0.1% Phosphoric acid solution

Time(Min)	A(%)	B(%)
0	20	80
21	20	80



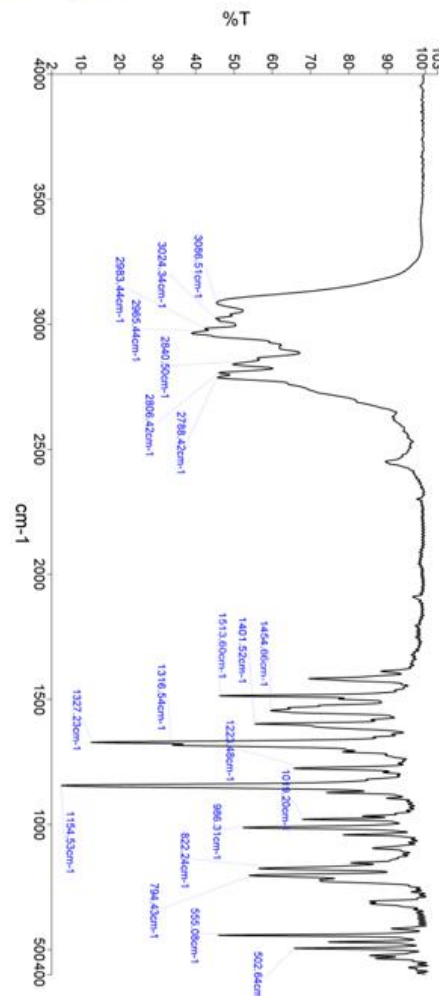
##### Area Percent Report

Peak #	Ret. Time	Area	Height	Area %
1	3.033	5494	970	0.058
2	5.400	2734	247	0.029
3	6.802	9515215	566779	99.914
Totals		9523443	567995	100.000

## Certificate & Spectrum



#### V. IR Spectrum





# 03 Our Services



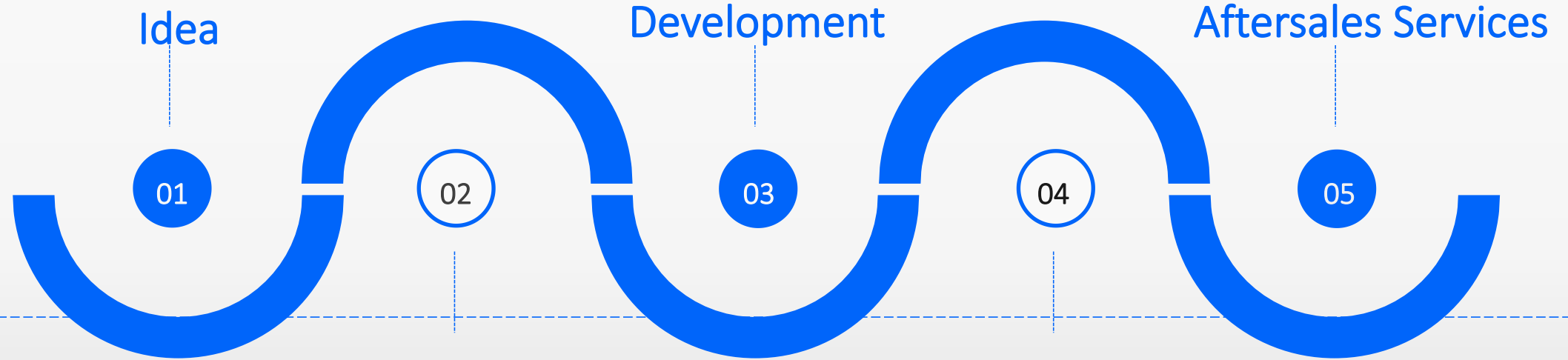




You tell us what kind of service you want and list your requirements.

Our professional teams do the synthesis, analysis and packaging work successively.

Our professional technical support will help you



We design a set of proposals and make a plan to realize your idea.

We send the final desired product to you.

**Our Professional Teams**

Our company has several professional teams collaborating mutually to achieve high level services



Research & Development



QC&QA



Sales



Purchase



Financial



Warehouse



## Custom Services

Do our best to meet our customer request about every detail.

### 01 | CUSTOM SYNTHESIS

- Aozeal Certified Standards (AOCS), Inc. has a great research group of PhD and Master Chemists with profound organic synthesis experience and excellent teamwork.
- Our research group has a proven track record for delivering custom synthesis projects and specially designed molecules with quantity and quality as per client required.

### 02 | CUSTOM ANALYSIS

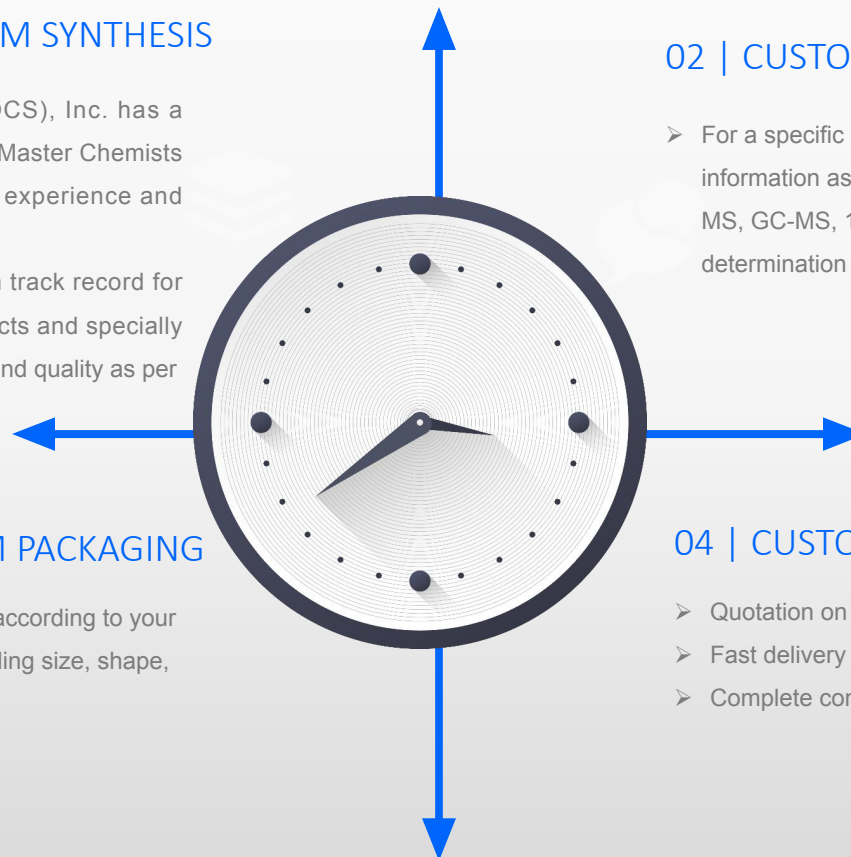
- For a specific compound, you can get the analytical information as you wanted, including: HPLC purity, LC-MS, GC-MS, 1H NMR, 13C NMR, 2D NMR, IR, water determination (Karl Fischer method), etc.

### 03 | CUSTOM PACKAGING

- The packaging is designed according to your specific requirements, including size, shape, material and condition.

### 04 | CUSTOMER SERVICES

- Quotation on client's request within 7-12 hours.
- Fast delivery within 1-2weeks for in stock items.
- Complete confidentiality of all orders is assured.





# 04 Partners

## International Business

After years of development in the field of manufacturing API impurities and Pharmaceutical reference substances, AOZEAL have provided high-quality products and R&D services to numerous worldwide clients.

We fully understand our quick development over the past years derived from our valued customers' trust and will consistently provide all our customers with more comprehensive and convenient products and services.

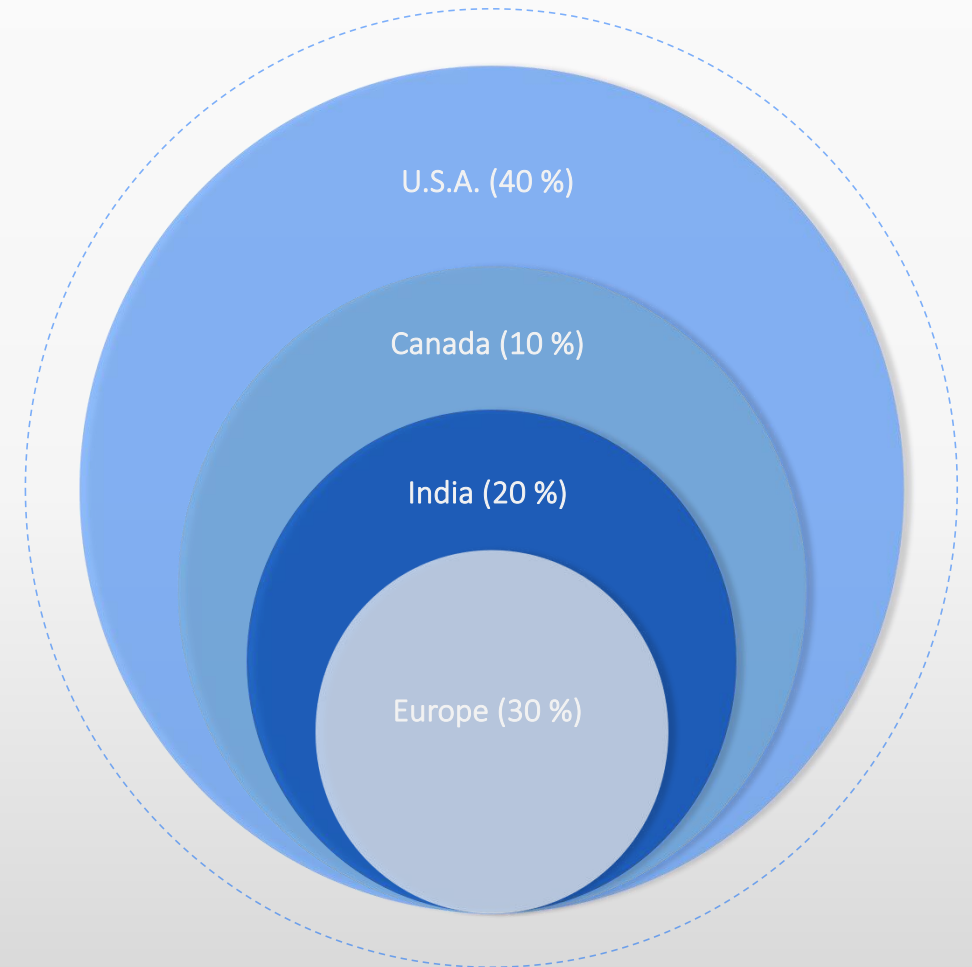


## Our Worldwide Partners

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We establish long-term in-depth cooperation with many worldwide pharma, bio-tech corporations, clinical and biological analysis CROs, as well as universities, hospitals and other research institutions.

Especially, our customers including very famous peer company like USP, EP, LGC, Clearsynth, pharmaffiliate, etc.





**Aozeal Certified Standards, Inc**  
Innovative products with high standards

# Thanks for Your Attention



For further custom synthesis reference materials and request a quote, contact us at:



**Aozeal Certified Standards, Inc**  
1151 Harbor Bay Parkway, Suite 208H United States, Alameda, CA 94502



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Web: [www.aozeal.com](http://www.aozeal.com)