

» Synthetic Cannabinoids



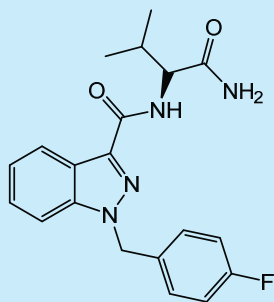
Synthetic cannabinoids are cannabinoid receptor agonists showing CB1 and CB2 binding affinities, resulting in producing cannabis-like effects.

These compounds have become very popular as «legal high» smoking mixtures, among which the brand name «Spice» is the most well-known. Due to the fast expanding «Spice»-phenomenon, control measures have been implemented in many countries to make «Spice» compounds illegal.

Nevertheless, the huge number of potentially psychoactive synthetic cannabinoids (for ex. JWH-, CP-, HU-, WIN-, RCS-, AM-compounds) presents an ongoing challenge for the forensic and toxicological identification.

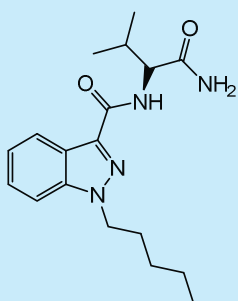
Lipomed currently supplies a first range of synthetic cannabinoids and metabolites available as ready-to-use calibrated forms and/or as standard pack sizes of 10 mg, 50 mg and 100 mg. For more information, please check our website www.lipomed.com.





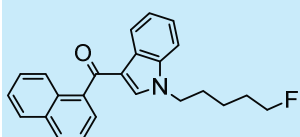
AB-FUBINACA

| | | |
|-----------------------|--------------|---------------------------------|
| $C_{20}H_{21}FN_4O_2$ | M.W.: 368.41 | |
| FUB-1621-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| FUB-1621-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| FUB-1621-1 | 1.0 mg | calibrated powder |
| FUB-1621-10 | 10 mg | powder |
| FUB-1621-50 | 50 mg | powder |
| FUB-1621-100 | 100 mg | powder |



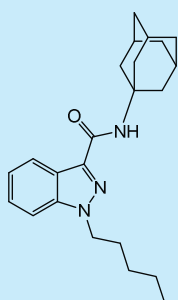
AB-PINACA

| | | |
|----------------------|--------------|---------------------------------|
| $C_{18}H_{26}N_4O_2$ | M.W.: 330.43 | |
| ABP-1624-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| ABP-1624-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| ABP-1624-1 | 1.0 mg | calibrated powder |
| ABP-1624-10 | 10 mg | powder |
| ABP-1624-50 | 50 mg | powder |
| ABP-1624-100 | 100 mg | powder |



AM-2201

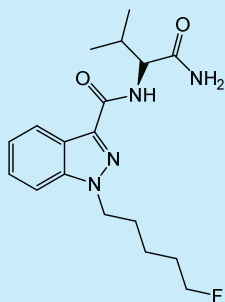
| | | |
|-------------------|--------------|---------------------------------|
| $C_{24}H_{22}FNO$ | M.W.: 359.44 | |
| JWH-1503-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1503-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1503-1 | 1.0 mg | calibrated powder |
| JWH-1503-10LM | 10 mg/1 ml | solution in methanol |
| JWH-1503-50LM | 50 mg/1 ml | solution in methanol |



APINACA

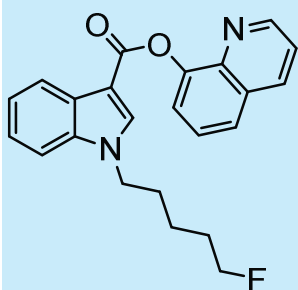
Synonym : AKB-48

| | | |
|--------------------|--------------|---------------------------------|
| $C_{23}H_{31}N_3O$ | M.W.: 365.52 | |
| AKB-1631-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| AKB-1631-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| AKB-1631-1 | 1.0 mg | calibrated powder |
| AKB-1631-10 | 10 mg | powder |
| AKB-1631-50 | 50 mg | powder |
| AKB-1631-100 | 100 mg | powder |



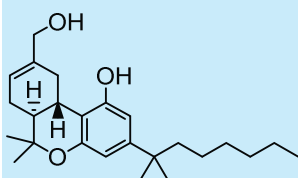
5F-AB-PINACA

| | | |
|-----------------------|--------------|---------------------------------|
| $C_{18}H_{25}FN_4O_2$ | M.W.: 348.42 | |
| ABF-1620-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| ABF-1620-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| ABF-1620-1 | 1.0 mg | calibrated powder |
| ABF-1620-10 | 10 mg | powder |
| ABF-1620-50 | 50 mg | powder |
| ABF-1620-100 | 100 mg | powder |



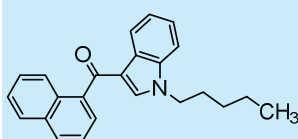
5F-PB-22

| | | |
|------------------------------------|--------------|-------------------------------------|
| Synonym : 5-Fluoro-PB-22; 5F-QUPIC | | |
| $C_{23}H_{21}FN_2O_2$ | M.W.: 376.43 | |
| PBF-1623-0.1LA | 0.1 mg/1 ml | calibrated solution in acetonitrile |
| PBF-1623-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
| PBF-1623-1 | 1.0 mg | calibrated powder |
| PBF-1623-10 | 10 mg | powder |
| PBF-1623-50 | 50 mg | powder |
| PBF-1623-100 | 100 mg | powder |



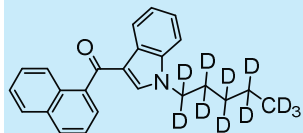
HU-210

| | | |
|-------------------|--------------|---------------------------------|
| $C_{25}H_{38}O_2$ | M.W.: 386.58 | |
| HU-1617-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| HU-1617-1LM | 1.0 mg/1 ml | calibrated solution in methanol |



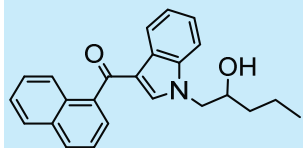
JWH-018

| | | |
|---|--------------|---------------------------------|
| Synonym : Naphthalen-1-yl-(1-pentylindol-3-yl)methanone | | |
| $C_{24}H_{23}NO$ | M.W.: 341.45 | |
| JWH-1294-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1294-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1294-1 | 1.0 mg | calibrated powder |
| JWH-1294-10 | 10 mg | powder |
| JWH-1294-50 | 50 mg | powder |
| JWH-1294-100 | 100 mg | powder |



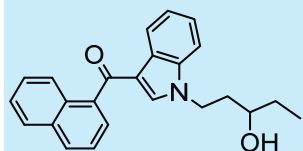
JWH-018-D₁₁

| | | |
|------------------------|--------------|---------------------------------|
| $C_{24}H_{12}D_{11}NO$ | M.W.: 352.51 | |
| JWH-1328-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1328-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1328-1 | 1.0 mg | calibrated powder |
| JWH-1328-10 | 10 mg | powder |
| JWH-1328-50 | 50 mg | powder |
| JWH-1328-100 | 100 mg | powder |



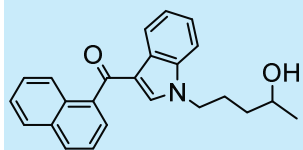
JWH-018 N-(2-hydroxypentyl) metabolite

| | | |
|--------------------|--------------|---------------------------------|
| $C_{24}H_{23}NO_2$ | M.W.: 357.45 | |
| JWH-1411-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1411-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1411-1 | 1.0 mg | calibrated powder |
| JWH-1411-10 | 10 mg | powder |
| JWH-1411-50 | 50 mg | powder |
| JWH-1411-100 | 100 mg | powder |



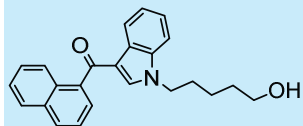
JWH-018 N-(3-hydroxypentyl) metabolite

| | | |
|--------------------|--------------|---------------------------------|
| $C_{24}H_{23}NO_2$ | M.W.: 357.45 | |
| JWH-1419-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1419-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1419-1 | 1.0 mg | calibrated powder |
| JWH-1419-10 | 10 mg | powder |
| JWH-1419-50 | 50 mg | powder |
| JWH-1419-100 | 100 mg | powder |



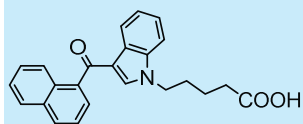
JWH-018 N-(4-hydroxypentyl) metabolite

| | | |
|--------------------|--------------|---------------------------------|
| $C_{24}H_{23}NO_2$ | M.W.: 357.45 | |
| JWH-1426-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1426-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1426-1 | 1.0 mg | calibrated powder |
| JWH-1426-10 | 10 mg | powder |
| JWH-1426-50 | 50 mg | powder |
| JWH-1426-100 | 100 mg | powder |



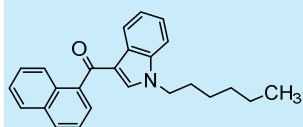
JWH-018 N-(5-hydroxypentyl) metabolite

| | | |
|--------------------|--------------|---------------------------------|
| $C_{24}H_{23}NO_2$ | M.W.: 357.45 | |
| JWH-1398-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1398-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1398-1 | 1.0 mg | calibrated powder |
| JWH-1398-10 | 10 mg | powder |
| JWH-1398-50 | 50 mg | powder |
| JWH-1398-100 | 100 mg | powder |



JWH-018 N-pentanoic acid metabolite

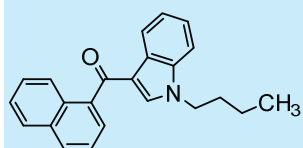
| | | |
|--------------------|--------------|--------------------------------|
| $C_{24}H_{21}NO_3$ | M.W.: 371.44 | |
| JWH-1393-0.1LE | 0.1 mg/1 ml | calibrated solution in ethanol |
| JWH-1393-1LE | 1.0 mg/1 ml | calibrated solution in ethanol |
| JWH-1393-1 | 1.0 mg | calibrated powder |
| JWH-1393-10 | 10 mg | powder |
| JWH-1393-50 | 50 mg | powder |
| JWH-1393-100 | 100 mg | powder |



JWH-019

Synonym : Naphthalen-1-yl-(1-hexylindol-3-yl)methanone

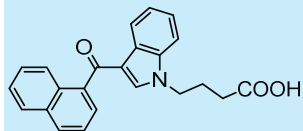
| | | |
|------------------|--------------|---------------------------------|
| $C_{25}H_{25}NO$ | M.W.: 355.48 | |
| JWH-1362-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1362-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1362-1 | 1.0 mg | calibrated powder |
| JWH-1362-10 | 10 mg | powder |
| JWH-1362-50 | 50 mg | powder |
| JWH-1362-100 | 100 mg | powder |



JWH-073

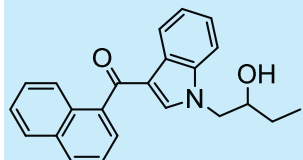
Synonym : Naphthalen-1-yl-(1-butylindol-3-yl)methanone

| | | |
|------------------|--------------|---------------------------------|
| $C_{23}H_{21}NO$ | M.W.: 327.42 | |
| JWH-1293-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1293-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1293-1 | 1.0 mg | calibrated powder |
| JWH-1293-10 | 10 mg | powder |
| JWH-1293-50 | 50 mg | powder |
| JWH-1293-100 | 100 mg | powder |



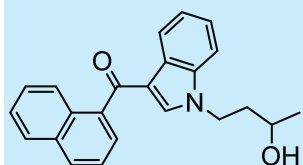
JWH-073 N-butanoic acid metabolite

| | | |
|--------------------|--------------|--------------------------------|
| $C_{23}H_{19}NO_3$ | M.W.: 357.40 | |
| JWH-1370-0.1LE | 0.1 mg/1 ml | calibrated solution in ethanol |
| JWH-1370-1LE | 1.0 mg/1 ml | calibrated solution in ethanol |
| JWH-1370-1 | 1.0 mg | calibrated powder |
| JWH-1370-10 | 10 mg | powder |
| JWH-1370-50 | 50 mg | powder |
| JWH-1370-100 | 100 mg | powder |



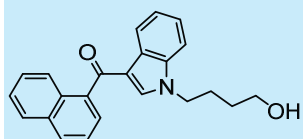
JWH-073 N-(2-hydroxybutyl) metabolite

| | | |
|--------------------|--------------|---------------------------------|
| $C_{23}H_{21}NO_2$ | M.W.: 343.42 | |
| JWH-1432-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1432-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1432-1 | 1.0 mg | calibrated powder |
| JWH-1432-10 | 10 mg | powder |
| JWH-1432-50 | 50 mg | powder |
| JWH-1432-100 | 100 mg | powder |



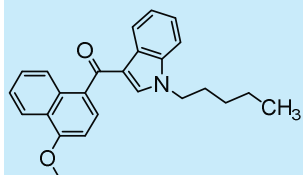
JWH-073 N-(3-hydroxybutyl) metabolite

| | | |
|--------------------|--------------|---------------------------------|
| $C_{23}H_{21}NO_2$ | M.W.: 343.42 | |
| JWH-1443-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1443-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1443-1 | 1.0 mg | calibrated powder |
| JWH-1443-10 | 10 mg | powder |
| JWH-1443-50 | 50 mg | powder |
| JWH-1443-100 | 100 mg | powder |



JWH-073 N-(4-hydroxybutyl) metabolite

| | | |
|--------------------|--------------|---------------------------------|
| $C_{23}H_{21}NO_2$ | M.W.: 343.42 | |
| JWH-1375-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1375-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1375-1 | 1.0 mg | calibrated powder |
| JWH-1375-10 | 10 mg | powder |
| JWH-1375-50 | 50 mg | powder |
| JWH-1375-100 | 100 mg | powder |

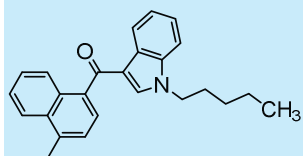


JWH-081

Synonym : 4-Methoxynaphthalen-1-yl-(1-pentylindol-3-yl)methanone

$C_{25}H_{25}NO_2$ M.W.: 371.48

| | | |
|----------------|-------------|---------------------------------|
| JWH-1505-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1505-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1505-1 | 1.0 mg | calibrated powder |
| JWH-1505-10 | 10 mg | powder |
| JWH-1505-50 | 50 mg | powder |
| JWH-1505-100 | 100 mg | powder |

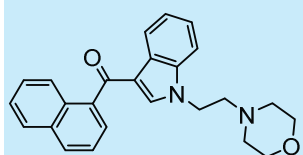


JWH-122

Synonym : (4-Methyl-1-naphthyl)-(1-pentylindol-3-yl)methanone

$C_{25}H_{25}NO$ M.W.: 355.47

| | | |
|----------------|-------------|---------------------------------|
| JWH-1491-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1491-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1491-1 | 1.0 mg | calibrated powder |
| JWH-1491-10 | 10 mg | powder |
| JWH-1491-50 | 50 mg | powder |
| JWH-1491-100 | 100 mg | powder |

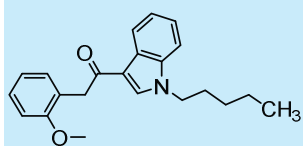


JWH-200

Synonym : (1-(2-Morpholin-4-ylethyl)indol-3-yl)-naphthalen-1-ylmethanone

$C_{25}H_{24}N_2O_2$ M.W.: 384.47

| | | |
|----------------|-------------|---------------------------------|
| JWH-1308-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1308-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1308-1 | 1.0 mg | calibrated powder |
| JWH-1308-10 | 10 mg | powder |
| JWH-1308-50 | 50 mg | powder |
| JWH-1308-100 | 100 mg | powder |

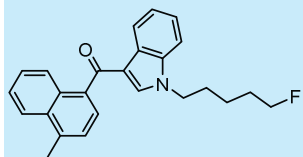


JWH-250

Synonym : 2-(2-Methoxyphenyl)-1-(1-pentylindol-3-yl)ethanone

$C_{22}H_{25}NO_2$ M.W.: 335.44

| | | |
|----------------|-------------|---------------------------------|
| JWH-1356-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| JWH-1356-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| JWH-1356-1 | 1.0 mg | calibrated powder |
| JWH-1356-10 | 10 mg | powder |
| JWH-1356-50 | 50 mg | powder |
| JWH-1356-100 | 100 mg | powder |

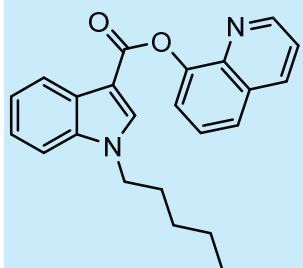


MAM-2201

Synonym : 5''-Fluoro-JWH-122

$C_{25}H_{24}FNO$ M.W.: 373.47

| | | |
|----------------|-------------|---------------------------------|
| MAM-1739-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| MAM-1739-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| MAM-1739-1 | 1.0 mg | calibrated powder |
| MAM-1739-10 | 10 mg | powder |
| MAM-1739-50 | 50 mg | powder |
| MAM-1739-100 | 100 mg | powder |

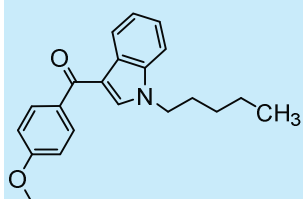


PB-22

Synonym : QUPIIC

$C_{23}H_{22}N_2O_2$ M.W: 358.44

| | | |
|---------------|-------------|-------------------------------------|
| PB-1622-0.1LA | 0.1 mg/1 ml | calibrated solution in acetonitrile |
| PB-1622-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
| PB-1622-1 | 1.0 mg | calibrated powder |
| PB-1622-10 | 10 mg | powder |
| PB-1622-50 | 50 mg | powder |
| PB-1622-100 | 100 mg | powder |

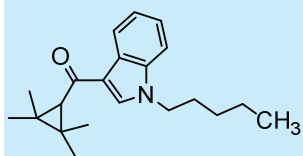


RCS-4

Synonym : SR-19

$C_{21}H_{23}NO_2$ M.W.: 321.41

| | | |
|----------------|-------------|---------------------------------|
| RCS-1493-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| RCS-1493-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| RCS-1493-1 | 1.0 mg | calibrated powder |
| RCS-1493-10 | 10 mg | powder |
| RCS-1493-50 | 50 mg | powder |
| RCS-1493-100 | 100 mg | powder |

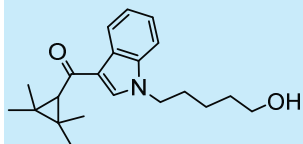


UR-144

Synonym : (1-Pentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone

$C_{21}H_{29}NO$ M.W.: 311.46

| | | |
|---------------|-------------|---------------------------------|
| UR-1495-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| UR-1495-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| UR-1495-1 | 1.0 mg | calibrated powder |
| UR-1495-10 | 10 mg | powder |
| UR-1495-50 | 50 mg | powder |
| UR-1495-100 | 100 mg | powder |

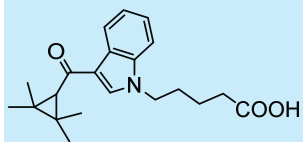


UR-144 N-(5-hydroxypentyl) metabolite

Synonym : XLR-11 N-(5-hydroxypentyl) metabolite

$C_{21}H_{29}NO_2$ M.W.: 327.47

| | | |
|---------------|-------------|---------------------------------|
| UR-1577-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| UR-1577-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| UR-1577-1 | 1.0 mg | calibrated powder |
| UR-1577-10 | 10 mg | powder |
| UR-1577-50 | 50 mg | powder |
| UR-1577-100 | 100 mg | powder |

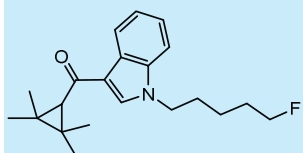


UR-144 N-pentanoic acid metabolite

Synonym : XLR-11 N-pentanoic acid metabolite

$C_{21}H_{27}NO_3$ M.W.: 341.45

| | | |
|---------------|-------------|------------------------------------|
| UR-1576-0.1LI | 0.1 mg/1 ml | calibrated solution in isopropanol |
| UR-1576-1LI | 1.0 mg/1 ml | calibrated solution in isopropanol |
| UR-1576-1 | 1.0 mg | calibrated powder |
| UR-1576-10 | 10 mg | powder |
| UR-1576-50 | 50 mg | powder |
| UR-1576-100 | 100 mg | powder |



XLR-11

Synonym : 5-Fluoro-UR-144

$C_{21}H_{28}FNO$ M.W.: 329.46

| | | |
|----------------|-------------|---------------------------------|
| XLR-1575-0.1LM | 0.1 mg/1 ml | calibrated solution in methanol |
| XLR-1575-1LM | 1.0 mg/1 ml | calibrated solution in methanol |
| XLR-1575-1 | 1.0 mg | calibrated powder |
| XLR-1575-10 | 10 mg | powder |
| XLR-1575-50 | 50 mg | powder |
| XLR-1575-100 | 100 mg | powder |

Lipomed MAIL/FAX ☐ **Quotation &** ☐ **Order Form**

Contact Information

Bill to _____ Ship to (if different from invoicing address) _____

Customer/Company

Department Department

Address _____ Address _____

| Contact Person | Contact Person |
|----------------|----------------|
|----------------|----------------|

City, ZIP City, ZIP

State, Country

Phone _____ Phone _____

Fax _____ Fax _____

E-Mail Address E-Mail Address

No of pages (incl. this one) Customer Account #

Date of Request Purchase Order

Special instructions/Notes

Product List

| Article-No. | Product Name | Qty | Unit Price | Total Price |
|-------------|--------------|-----|------------|-------------|
|-------------|--------------|-----|------------|-------------|

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