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COMPARISON OF THE POTENCIES OF CONGENERS OF LSD IN INDUCING PSYCHOSES WITH POTENCIES IN BLOCKING SEROTONIN INDUCED CONTRACTION IN SMOOTH MUSCLE

DRUG	ANTISEROTONIN POTENCY <sup>1</sup>	PSYCHOTOMIMETIC POTENCY <sup>2</sup>
<u>d-DIETHYLAMIDE OF LYSERGIC ACID (LSD)</u>	100	100
<b>A. ISOMERS</b>		
L-DIETHYLAMIDE (L-LSD)	0.06	<0.025
<u>d-ISO-DIETHYLAMIDE (ILD)</u>	0.12	<2.0
<b>B. DISUBSTITUTED AMIDES</b>		
d-LYSERGIC ACID AMIDE (LAIII)	4	<3.0
<u>d-LYSERGIC ACID DIETHYLAMIDE (DAM)</u>	23	13
<b>C. MONOSUBSTITUTED AMIDES</b>		
d-MONOMETHYL AMIDE	6	<5
<u>d-MONOETHYL AMIDE (LAE)</u>	12	5
<b>D. CYCLIC AMIDES</b>		
d-MORPHOLIDE (LSM)	2.0	10
<u>d-PYROLLIDID (LPD)</u>	5.0	6
<b>E. REMOVAL OF ACID AMIDE</b>		
<u>d-LYSERGIC ACID</u>	<1	<3.0
<b>F. RING-SUBSTITUTED DERIVATIVES</b>		
(1) ON INDOLE NITROGEN		
1-ACETYL LSD (ALD)	210	>100
<u>1-METHYL LSD (MLD)</u>	368	33
(2) ON CARBON 2		
<u>2-BROM-LSD (BOL)</u>	103	<0.5
(3) ON INDOLE NITROGEN AND CARBON 2		
<u>1-METHYL-2-BROM LSD (MBL)</u>	533	<0.5
(4) ON INDOLE NITROGEN AND VARIATION IN ACID AMIDE		
1-METHYL-MONOETHYL AMIDE (MLA)	11	<4
1-ACETYL-MONOETHYL AMIDE (ALA)	11	<6
1-METHYL-PYROLLADID (MPD)	5	<4

<sup>1</sup> FROM DATA OF CERLETTI AND DOEPFNER, J.P.E.T. 122:124-136 (JAN.) 1958

<sup>2</sup> EXPRESSED AS RATIO ;  $\frac{\text{POTENCY OF LSD (1 MCG/KG)}}{\text{POTENCY OF CONGENER}} \times 100$

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