

TABLE OF CONTENTS

1. Executive Summary.....	9
Market Overview.....	9
Drug Delivery Systems for Pediatrics	10
Formulation Opportunities	10
Specialty Pediatric Companies.....	11
Product Licensing Opportunities	11
2. Pediatric Market Overview	12
Market Needs	12
Therapeutic Needs	13
Hypertension.....	13
Hypercholesterolemia.....	14
Diabetes	15
Pain Management.....	16
Anti-Infectives	17
Respiratory / Allergy	17
Attention Deficit Hyperactivity Disorder	19
Epilepsy	20
Market Size.....	22
Key Therapeutic Areas.....	25
CNS.....	25
Allergies.....	26
Asthma	27
Infections.....	28
3. Drug Delivery Systems for Pediatrics	30
Marketed Products	30
Dosage Forms.....	38
Taste Masking	38
Orally Disintegrating Dosage Forms.....	39
Soft Chewable Delivery Systems	42
Oral Liquid Delivery Systems.....	44
Oral Mucosal Delivery Systems	46
Transdermal Delivery Systems	47
Topical Delivery Systems.....	48
Nasal Drug Delivery	49
Pulmonary Delivery Systems.....	51
Parenteral and Device Technologies	53
4. Formulation Opportunities.....	54
Oral Reformulation.....	54
Taste Masking	57

Non-invasive Formulations.....	58
5. Companies with Pediatric Focus	59
Adamis Pharmaceuticals Corporation.....	60
Aires Pharmaceuticals, Inc.....	61
Arbor Pharmaceuticals, Inc.....	62
Asklepiion Pharmaceuticals, Inc.....	64
Centrix Pharmaceutical, Inc.....	66
Cornerstone Therapeutics, Inc.....	68
Curemark, LLC.....	70
FSC Pediatrics, Inc.....	71
InfaCare Pharmaceutical Corporation	72
Lupin Pharmaceuticals, Inc.....	73
Madeira Therapeutics.....	74
McNeil Pediatrics.....	75
Meritage Pharma, Inc.....	76
Next Wave Pharmaceuticals, Inc.....	77
ParaPRO, LLC.....	78
Pediapharm, Inc.....	79
Pernix Therapeutics Holdings, Inc.....	81
Reckitt Benckiser Pharmaceutical, Inc.....	82
Seaside Therapeutics, Inc.....	85
Shionogi Pharma, Inc.....	86
TaroPharma	88
Teva Respiratory, LLC.....	90
Tiber Laboratories, LLC	92
Topaz Pharmaceuticals, Inc.....	93
TRx Pharma	94
6. Drug Delivery Technologies for Pediatric Drugs.....	95
Buccal Delivery Systems	96
APTYS Pharmaceuticals.....	97
Biodel, Inc.....	98
BioDelivery Sciences International.....	100
Corium International, Inc.....	101
Fertin Pharma.....	102
NovaDel Pharma.....	104
Orexo AB	106
ULURU, Inc.....	108
Watson, Inc.....	110
Oral Delivery Systems	112
Acino Holding, Ltd.....	113
Akina, Inc.....	114
Alpex Pharma	116
Alte Biosciences, Inc.....	118

Aprecia Pharmaceuticals Company	119
Arx, LLC	120
Banner Pharmacaps	121
Capricorn Pharma, Inc.	123
Catalent Pharma Solutions.....	125
CIMA Labs, Inc.	128
Collegium Pharmaceutical, Inc.	131
Dow Wolff Cellulosics	132
Egalet A/S	134
Ethypharm	135
Eurand, Inc.	137
Eurand, Inc.	139
ForTe BV.....	140
Grunenthal GmbH.....	142
HealthSport, Inc.	143
IntelGenx Corporation	145
KV Pharmaceutical Company	146
Labtec Pharma	147
Lavipharm	149
Losan Pharma GmbH	150
LTS Lohmann	152
Meldex International, PLC.....	154
MonosolRx	157
NAL Pharmaceuticals, Ltd.	159
Pharmafilm S.r.l.	161
Physica Pharma	163
SPI Pharma Inc.	164
Tris Pharma.....	166
Xel Pharmaceuticals, Inc.	168
Taste Masking Technologies	169
Balchem Corporation.....	170
Cambrex Corporation	171
Ethypharm	172
Eurand, Inc.	173
ForTe BV.....	175
Oralance Pharma	177
Nasal Technologies	179
Ikano Therapeutics, Inc.	180
OptiNose.....	182
Dermal Delivery Technologies	184
Altea Therapeutics	185
Foamix, Ltd.	187
ForTe BV.....	190
Intercell	192

nanoBioSciences, LLC.....	194
Pantec Biosolutions.....	196
Quinnova Pharmaceuticals, Inc.	197
TransPharma Medical.....	198
Zosano Pharma	200
7. Product Licensing Opportunities	202
Albuterol Dry Powder Inhaler.....	203
Allergy Chewing Gum.....	204
Atopic Dermatitis Treatment.....	205
Atopiclair™ Cream.....	206
CRO-PED for Pediatric Diarrhea.....	208
Children’s Dietary Supplement	209
Ciprofloxacin Otic Solution.....	210
Cough/Cold Pediatric Formulations.....	211
Decongestant Cream Stick.....	213
Decongestant Patch	214
Fever Cooling Patch	215
Foam-Based Dermatology Products.....	216
Foam-Based Products for Infants	218
GastroGard-R for Rotavirus.....	220
Hedrin™ for the Treatment of Head Lice	222
Human Growth Hormone Nasal Spray	224
Insect Repellent Patch	225
Insecticide-Free Head Lice Treatment	226
Liposomal Amikacin Formulation	227
Long-acting Somatropin Injection	228
Moisturizing Cream for Dermatitis	230
Nasal Somatropin Formulation	231
NeoCeram™ Skin Barrier Emulsion.....	232
Novel Head Lice Formulation	234
Once-weekly Injectable Somatropin	236
Oral Film Formulation of Prednisolone	238
Oral Rotavirus Thin Film Product.....	239
Orally Disintegrating Acetaminophen Formulations.....	240
Orally Disintegrating Allergy Products.....	241
Pediatric Pain Formulations.....	242
Peptide for Chronic Middle Ear Infections.....	243
Sinlice, Pediculicide Treatment.....	244
Site-Specific Otitis Media Treatment	246
Sustained Release Somatropin Injection	247
Teething Gel for Babies	248
Zinc Oxide Spray	250

INDEX OF TABLES

Table 1: Pediatric Age Related Subgroups	13
Table 2: Antihypertensives Granted Pediatric Exclusivity	14
Table 3: Cholesterol Drugs Granted Pediatric Exclusivity	15
Table 4: Diabetes Products Used in Pediatrics.....	15
Table 5: Pain Medications Granted Pediatric Exclusivity	16
Table 6: Emerging Technologies for Antibiotics.....	17
Table 7: Leading Respiratory/Allergy Products for Pediatrics.....	18
Table 8: ADHD Medications for Pediatrics.....	19
Table 9: Drugs Approved for Epilepsy	20
Figure 1: US Prescription Pediatric Market, 2009	22
Table 10: Sales of 25 Drugs Commonly Prescribed to Pediatrics.....	23
Table 11: Sales of Leading Pediatric-Focused Products, 2009.....	24
Table 12: Sales of Leading ADHD Drugs, 2009	26
Table 13: Sales of Leading Prescription Allergy Drugs, 2009	26
Table 14: Sales of Leading Asthma Drugs, 2009	27
Table 15: Pediatric Oral Antibiotic Market.....	28
Table 16: DDS Products Approved for Pediatric Use	31
Table 17: OTC DDS Products for Pediatrics.....	36
Table 18: Key Players in Taste Masking.....	39
Table 19: ODT Technology Summary.....	40
Table 20: Key Players in ODT Market.....	40
Table 21: Oral Film Technology Summary	41
Table 22: Key Players in Oral Film Market	41
Table 23: ODD Pipeline Products for Pediatrics	42
Table 24: Advantages of Chewable Dosage Forms	43
Table 25: Soft Chewable Delivery Systems	43
Table 26: Liquid Drug Delivery Technologies	44
Table 27: Liquid Pediatric Products in Development	45
Table 28: Key Players in Buccal Delivery	46
Table 29: Transdermal Pediatric Products.....	47
Table 30: Transdermal Pipeline for Pediatrics	48
Table 31: Topical Pediatric Pipeline.....	49
Table 32: Nasal Pipeline Products Applicable to Pediatrics	50
Table 33: Pulmonary Pipeline for Pediatrics	51
Table 34: Parenteral DDS Pediatric Pipeline.....	53
Table 35: Pediatric Drug Candidates for Oral Reformulation.....	54
Table 36: Taste Masking Development Opportunities	57
Table 37: Non-invasive Reformulation Opportunities	58
Table 38: Arbor Product Pipeline	62
Table 39: Asklepion Pipeline.....	65
Table 40: Pediatric Products of Centrix.....	66
Table 41: Therapeutic Targets of Centrix	67

Table 42: Cornerstone Products Prescribed to Pediatrics	68
Table 43: Madeira Product Pipeline	74
Table 44: McNeil’s Pediatric Product Developments.....	75
Table 45: NextWave Pipeline Products	77
Table 46: Pediapharm Pipeline	79
Table 47: Marketed Products by Reckitt Benckiser	82
Table 48: Pediatric Products Marketed by Shionogi	86
Table 49: Shionogi Pediatric Pipeline.....	86
Table 50: NonSpil OTC Products.....	88
Table 51: Rx Products Marketed by Taro.....	89
Table 52: Teva’s Key Products for Pediatrics.....	90
Table 53: Tiber Laboratories Product Portfolio	92
Table 54: VIAdel Pipeline	98
Table 55: NovaDel Pipeline	104
Table 56: Orexo’s Sublingual Pipeline.....	106
Table 57: Apex Pipeline.....	116
Table 58: Marketed Zydis Products	126
Table 59: Catalent Product Pipeline	126
Table 60: Products Developed by CIMA.....	129
Table 61: Ethypharm’s ODT Products.....	135
Table 62: Eurand’s ODT Products	137
Table 63: HealthSport Products	143
Table 64: Labtec Products.....	147
Table 65: LTS Wafer Systems.....	152
Table 66: Meldex DDS Pipeline	155
Table 67: MonosolRx Pipeline	157
Table 68: Malt-o-Fast Comparative Data	161
Table 69: Tris Product Pipeline	166
Table 70: Products Containing Microcaps Technology.....	173
Table 71: NODS [®] Pipeline	177
Table 72: OptiNose Pipeline	182
Table 73: PassPort [™] Product Pipeline	185
Table 74: ViaDerm Pipeline	198
Table 75: Foamix Pipeline Products	216