U.S. 9,833,419	U.S. 9,724,310
1. A monolithic transdermal drug delivery system for estradiol, consisting of	1. A monolithic transdermal drug delivery system for estradiol, consisting of
(i) a backing layer,	(i) a backing layer,
(ii) a single adhesive polymer matrix layer defining an active surface area and,	(ii) a single adhesive polymer matrix layer defining an active surface area and,
optionally, (iii) a release liner,	optionally, (iii) a release liner,
wherein the single adhesive polymer matrix layer comprises an adhesive polymer matrix comprising estradiol as the only drug,	wherein the single adhesive polymer matrix layer comprises an adhesive polymer matrix comprising estradiol as the only drug,
wherein the adhesive polymer matrix layer has a coat weight of greater than 10 mg/cm ² and includes greater than 0.156 mg/cm ² estradiol,	wherein the adhesive polymer matrix layer has a coat weight of greater than about 10 mg/cm ² and includes greater than 0.156 mg/cm ² estradiol,
and the system achieves an estradiol flux of from 0.0125 to about 0.05 mg/cm ² /day,	and the system achieves an estradiol flux of from about 0.0125 to about 0.05 mg/cm ² /day,
based on the active surface area.	based on the active surface area.

Noven Pharmaceuticals, Inc. EX2024 Mylan Tech., Inc., v. Noven Pharma., Inc. IPR2018-01119



U.S. 9,833,419	U.S. 9,724,310
2. The transdermal drug delivery system of claim 1,	2. The transdermal drug delivery system of claim 1,
wherein the adhesive polymer matrix comprises a polymer blend comprising	wherein the adhesive polymer matrix comprises a polymer blend comprising
an acrylic adhesive,	an acrylic adhesive,
a silicone adhesive,	a silicone adhesive,
and soluble PVP.	and soluble PVP.



U.S. 9,833,419	U.S. 9,724,310
3. The transdermal drug delivery system of claim 1,	3. The transdermal drug delivery system of claim 1,
wherein the adhesive polymer matrix comprises about 2- 25% by weight acrylic adhesive,	wherein the adhesive polymer matrix comprises about 2-25% by weight acrylic adhesive,
about 45-70% by weight silicone adhesive,	about 45-70% by weight silicone adhesive,
about 2-25% by weight soluble PVP,	about 2-25% by weight soluble PVP,
about 5-15% penetration enhancer,	about 5-15% penetration enhancer,
and about 0.1-10% by weight estradiol,	and about 0.1-10% by weight estradiol,
all based on the total dry weight of the adhesive polymer matrix.	all based on the total dry weight of the adhesive polymer matrix.



U.S. 9,833,419	U.S. 9,724,310
4. The transdermal drug delivery system of claim 3,	4. The transdermal drug delivery system of claim 3,
wherein the penetration enhancer comprises oleyl alcohol.	wherein the penetration enhancer comprises oleyl alcohol.

U.S. 9,833,419	U.S. 9,724,310
5. The transdermal drug delivery system of claim 3,	5. The transdermal drug delivery system of claim 3,
wherein the penetration enhancer comprises dipropylene glycol.	wherein the penetration enhancer comprises dipropylene glycol.



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