



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Acetaminophen (paracetamol)	50 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Sep-Oct;20(5):426-34.				
Acetazolamide	25 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Acetazolamide, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2017 Jul-Aug;21(4):255-62.				
Allopurinol	20 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Sep-Oct;20(5):426-34.				
Alprazolam	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nifurofuran, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Amiodarone HCl	5 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd.</i> 2015 Sep-Oct;19(5):420-7.				
Amitriptyline HCl	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Sep-Oct;20(5):426-34.				
Amlodipine (as besylate)	1 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Atenolol	1 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	60
Polonini HC, Loures S, Lima LC, et al. Stability of Atenolol, Clonazepam, Dexamethasone, Diclofenac Sodium, Diltiazem, Enalapril Maleate, Ketoprofen, Lamotrigine, Penicillamine-D, and Thiamine in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Mar-Apr;20(2):167-74.				
Atenolol	5 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Loures S, Lima LC, et al. Stability of Atenolol, Clonazepam, Dexamethasone, Diclofenac Sodium, Diltiazem, Enalapril Maleate, Ketoprofen, Lamotrigine, Penicillamine-D, and Thiamine in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Mar-Apr;20(2):167-74.				
Atropine Sulfate	.1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nifurofuran, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Caffeine	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al. Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm.</i> doi:10.1136/ejpharm-2016-000903				
Captopril	0.8 mg/ml	PH4 (liquid)	2-8°C	14
Geiger CM(1), Sorenson B, Whaley PA. Stability of captopril in SyrSpend SF. <i>Int J Pharm Compd.</i> 2013 Jul-Aug;17(4):336-8.				
Carbamazepine	25 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Sep-Oct;20(5):426-34.				



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Carvedilol	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al. Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm</i> . doi:10.1136/ejhpharm-2016-000903				
Chloroquine Phosphate	15 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal</i> . 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Cholecalciferol (vit. D3)	50,000 IU/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate, terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> . 2016 Apr; 71(4):185-91.				
Clomipramine HCl	5 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al. Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm</i> doi:10.1136/ejhpharm-2016-000903				
Clonazepam	0.2 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Loures S, Lima LC, et al. Stability of Atenolol, Clonazepam, Dexamethasone, Diclofenac Sodium, Diltiazem, Enalapril Maleate, Ketoprofen, Lamotrigine, Penicillamine-D, and Thiamine in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Mar-Apr;20(2):167-74.				
Dapsone	2 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal</i> . 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Dexamethasone	1 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Loures S, Lima LC, et al. Stability of Atenolol, Clonazepam, Dexamethasone, Diclofenac Sodium, Diltiazem, Enalapril Maleate, Ketoprofen, Lamotrigine, Penicillamine-D, and Thiamine in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Mar-Apr;20(2):167-74.				
Diclofenac Sodium	5 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Loures S, Lima LC, et al. Stability of Atenolol, Clonazepam, Dexamethasone, Diclofenac Sodium, Diltiazem, Enalapril Maleate, Ketoprofen, Lamotrigine, Penicillamine-D, and Thiamine in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Mar-Apr;20(2):167-74.				
Diltiazem	12 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini HC, Loures S, Lima LC, et al. Stability of Atenolol, Clonazepam, Dexamethasone, Diclofenac Sodium, Diltiazem, Enalapril Maleate, Ketoprofen, Lamotrigine, Penicillamine-D, and Thiamine in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Mar-Apr;20(2):167-74.				
Dipyridamole	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Dipyridamole, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2017 Jul-Aug;21(4):255-62.				
Domperidone	5 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Sep-Oct;20(5):426-34.				
Enalapril Maleate	1 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Loures S, Lima LC, et al. Stability of Atenolol, Clonazepam, Dexamethasone, Diclofenac Sodium, Diltiazem, Enalapril Maleate, Ketoprofen, Lamotrigine, Penicillamine-D, and Thiamine in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Mar-Apr;20(2):167-74.				
Esomeprazole	3 mg/ml	Alka (powder)	2-8°C	60
Polonini HC, Silva SL, Loures S, et al. Compatibility of proton pump inhibitors in a preservative-free suspending vehicle. <i>Eur J Hosp Pharm</i> . 2016;0:1-7. doi:10.1136/ejhpharm-2016-001034				



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Folic Acid	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm</i> . doi:10.1136/ejpharm-2016-000903				
Furosemide	10 mg/ml	Alka (powder)	2-8°C	14
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd</i> . 2015 Sep-Oct;19(5):420-7.				
Gabapentin	50 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Sorenson B(1), Voudrie MA 2nd, Gehrig D. Stability of gabapentin in SyrSpend SF. <i>Int J Pharm Compd</i> . 2012 Jul-Aug;16(4):347-9.				
Glutamine	250 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nifurofuranol, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Haloperidol	0.5 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate ,terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> . 2016 Apr; 71(4):185-91.				
Hydrochlorothiazide	5 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm</i> . doi:10.1136/ejpharm-2016-000903				
Hydrocortisone Hemisuccinate	2 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	60
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd</i> . 2015 Sep-Oct;19(5):420-7.				
Hydrocortisone Sodium Phosphate	2 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	60
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd</i> . 2015 Sep-Oct;19(5):420-7.				
Imipramine HCl	5 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate ,terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> . 2016 Apr; 71(4):185-91.				
Isoniazid	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Sep-Oct;20(5):426-34.				
Ketoconazole	20 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Sep-Oct;20(5):426-34.				
Ketoprofen	20 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Sep-Oct;20(5):426-34.				
Lamotrigine	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Sep-Oct;20(5):426-34.				



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Levodopa and Carbidopa	5 / 1.25 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	60 / 30
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate, terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> . 2016 Apr; 71(4):185-91.				
Levofloxacin	50 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nirofurantoin, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Lisinopril	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2016 Sep-Oct;20(5):426-34.				
Lorazepam	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate, terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> . 2016 Apr; 71(4):185-91.				
Mebevarine Hydrochloride	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Mebevarine Hydrochloride, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd</i> . 2017 Jul-Aug;21(4):255-62.				
Methotrexate	2.5 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm</i> . doi:10.1136/ejhpharm-2016-000903				
Metoprolol Tartrate	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nirofurantoin, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Metronidazole Benzoate	80 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	716 / 366
Vu NT Phd(1), Aloumanis V Md, Ben M Ms, et al. Stability of Metronidazole Benzoate in SyrSpend SF One-Step Suspension System. <i>Int J Pharm Compd</i> . 2008 Nov-Dec;12(6):558-64.				
Midazolam HCl	1 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	60
Geiger CM(1), Sorenson B, Whaley PA. Stability of midazolam in SyrSpend SF and SyrSpend SF cherry. <i>Int J Pharm Compd</i> . 2013 Jul-Aug;17(4):344-6.				
Minocycline HCl	10 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	60
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate, terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> . 2016 Apr; 71(4):185-91.				
Nadolol	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm</i> . doi:10.1136/ejhpharm-2016-000903				
Naltrexone HCl	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm</i> . doi:10.1136/ejhpharm-2016-000903				



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Naproxen	25 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Sep-Oct;20(5):426-34.				
Nifedipine	4 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	92
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd.</i> 2015 Sep-Oct;19(5):420-7.				
Nitrofurantoin	2 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nitrofurantoin, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Omeprazole	2 mg/ml	Alka (powder)	2-8°C	60
Whaley PA(1), Voudrie MA 2nd, Sorenson B. Stability of omeprazole in SyrSpend SF Alka (reconstituted). <i>Int J Pharm Compd.</i> 2012 Mar-Apr;16(2):164-6.				
Ondansetron Hydrochloride	.8 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nitrofurantoin, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Oseltamivir Phosphate	15 mg/ml	PH4 (liquid)	2-8°C	90
Voudrie li MA(1), Allen DB. Stability of Oseltamivir Phosphate in SyrSpend SF, Cherry Syrup, and SyrSpend SF (For Reconstitution). <i>Int J Pharm Compd.</i> 2010 Jan-Feb;14(1):82-6.				
Oxandrolone	3 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nitrofurantoin, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Pantoprazole	3 mg/ml	Alka (powder)	2-8°C	60
Polonini HC, Silva SL, Loures S, et al. Compatibility of proton pump inhibitors in a preservative-free suspending vehicle. <i>Eur J Hosp Pharm.</i> 2016;0:1-7. doi:10.1136/ejhpharm-2016-001034				
Penicillamine	50 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Sep-Oct;20(5):426-34.				
Pentoxifylline	20 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini, H. C., Silva, S. L., de Almeida, T. R., et al Compatibility of caffeine, carvedilol, clomipramine hydrochloride, folic acid, hydrochlorothiazide, loperamide hydrochloride, methotrexate, nadolol, naltrexone hydrochloride and pentoxifylline in SyrSpend SF PH4 oral suspensions. <i>Eur J Hosp Pharm.</i> doi:10.1136/ejhpharm-2016-000903				
Phenobarbital	9/15 mg/ml	PH4 (liquid)	2-8°C & 2-8°C / 15-25°C	90 / 154
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd.</i> 2015 Sep-Oct;19(5):420-7.				
Phenytoin	15 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Prednisolone Sodium Phosphate	1.5 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	30
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd.</i> 2015 Sep-Oct;19(5):420-7.				
Pregabalin	20 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nirofurantoin, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Propranolol HCl	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Geiger CM(1), Voudrie MA 2nd, Sorenson B. Stability of Propranolol HCl in SyrSpend SF Cherry flavored. <i>Int J Pharm Compd.</i> 2012 Nov-Dec;16(6):510-2. Erratum in <i>Int J Pharm Compd.</i> 2013 Nov/Dec ;16(6):86				
Propylthiouracil	5 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Mebevarine Propylthiouracil, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2017 Jul-Aug;21(4):255-62.				
Pyrazinamide	100 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Hudson C Polonini1, Sharlene L Silva1, Shirley Loures1, Rachel Almy2, Antoine Balland2, Marcos Antônio F Brandão1, Anderson O Ferreira1. Author affiliations. Feasibility of Pyrazinamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> Eur J Hosp Pharm 2017;24:A225				
Pyridoxine HCl (vit. B6)	50 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Quinidine Sulfate	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Mebevarine Quinidine Sulfate, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2017 Jul-Aug;21(4):255-62.				
Rifampin (rifampicin)	25 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	60
Sorenson B(1), Whaley P. Stability of rifampin in SyrSpend SF. <i>Int J Pharm Compd.</i> 2013 Mar-Apr;17(2):162-4.				
Riboflavin	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Anderson, Oliveira Ferreira, Hudson C. Polonini, and Laura Andrade. "Stability of Alprazolam, Atropine Sulfate, Glutamine, Levofloxacin, Metoprolol Tartrate, Nirofurantoin, Ondansetron Hydrochloride, Oxandrolone, Pregabalin, and Riboflavin in SyrSpend SF PH4 Oral Suspensions." <i>International Journal of Pharmaceutical Compounding</i> 21.3 (2017): 255-64. Web. 05 May 2017.				
Sertraline HCl	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Sep-Oct;20(5):426-34.				
Simvastatin	1 mg/ml	PH4 (liquid)	2-8°C	90
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd.</i> 2015 Sep-Oct;19(5):420-7.				
Spironolactone	25 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Geiger CM, Sorenson B, Whaley P. Stability Assessment of 10 Active Pharmaceutical Ingredients Compounded in SyrSpend SF. <i>Int J Pharm Compd.</i> 2015 Sep-Oct;19(5):420-7.				



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Sulfadiazine	100 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Sulfasalazine	100 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Tacrolimus	1 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate ,terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> 2016 Apr; 71(4):185-91.				
Terbinafine HCl	25 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate ,terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> 2016 Apr; 71(4):185-91.				
Tetracycline HCl	25 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Thiamine	100 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini Hudson C, Loures Sharlene, de Araujo Edson Peter, et al. Stability of Allopurinol, Amitriptyline Hydrochloride, Carbamazepine, Domperidone, Isoniazid, Ketoconazole, Lisinopril, Naproxen, Paracetamol (Acetaminophen), and Sertraline Hydrochloride in SyrSpend SF PH4 Oral Suspensions. <i>Int J Pharm Compd.</i> 2016 Mar/Apr;20(2):167-74.				
Tramadol HCl	10 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate ,terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> 2016 Apr; 71(4):185-91.				
Trimethoprim	10 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	90
Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.				
Ursodiol (ursodeoxycholic acid)	20/30 mg/ml	PH4 (liquid)	2-8°C	66
Geiger CM(1), Voudrie MA 2nd, Sorenson B. Stability of ursodiol in SyrSpend SF Cherry flavored. <i>Int J Pharm Compd.</i> 2012 Nov-Dec;16(6):510-2. Erratum in <i>Int J Pharm Compd.</i> 2013 Jan-Feb;17(1):86.				
Valsartan	4 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
Polonini HC, Silva SL, Cunha CN, et al. Compatibility of cholecalciferol, haloperidol, imipramine hydrochloride, levodopa/carbidopa, lorazepam, minocycline hydrochloride, tacrolimus monohydrate ,terbinafine, tramadol hydrochloride and valsartan in SyrSpend SF PH4 oral suspensions. <i>Pharmazie</i> 2016 Apr; 71(4):185-91.				
Vancomycin HCl	25/50 mg/ml	PH4 (liquid)	2-8°C	90
Whaley PA(1), Voudrie MA 2nd. Stability of vancomycin in SyrSpend SF. <i>Int J Pharm Compd.</i> 2012 Mar-Apr;16(2):167-9. Erratum in <i>Int J Pharm Compd.</i> 2013 Jan-Feb;17(1):86.				
Verapamil HCl	50 mg/ml	PH4 (liquid)	2-8°C	60
Voudrie Mark A, Alexander Bridget, Allen D Brett. Stability of Verapamil Hydrochloride in SyrSpend SF Compared to Sorbitol Containing Syrup and Suspending Vehicles. <i>Int J Pharm Compd.</i> 2011 May-Jun; 15(3):255-58				
Warfarin	1 mg/ml	PH4 (liquid)	2-8°C / 20-25°C	44
Guillois G, Fétique L, Perovic I, et al. PP-028 Stability study of 1 mg/ml paediatric warfarin oral suspension in syrspend. <i>Eur J Hosp Pharm</i> 2017;24:A214.				



API	Concentration	SyrSpend® SF	Storage Conditions	Study BUD
Zonisamide	10 mg/ml	PH4 (liquid)	2-8°C / 15-25°C	90
<small>Ferreira AO(1), Polonini HC(1), Silva SL(2), et al. Feasibility of amlodipine besylate, chloroquine phosphate, dapsone, phenytoin, pyridoxine hydrochloride, sulfadiazine, sulfasalazine, tetracycline hydrochloride, trimethoprim and zonisamide in SyrSpend® SF PH4 oral suspensions. <i>J Pharm Biomed Anal.</i> 2016 Jan 25;118:105-12. doi: 10.1016/j.jpba.2015.10.032. Epub 2015 Oct 27.</small>				